

AHMEDABAD, GUJARAT



# SAS POWER SEMICONDUCTOR DEVCIES



**HIGH-POWER THYRISTORS, RECTIFIERS, DIODES, & MODULES.**  
Reliable Solutions for Industrial Power Conversion.

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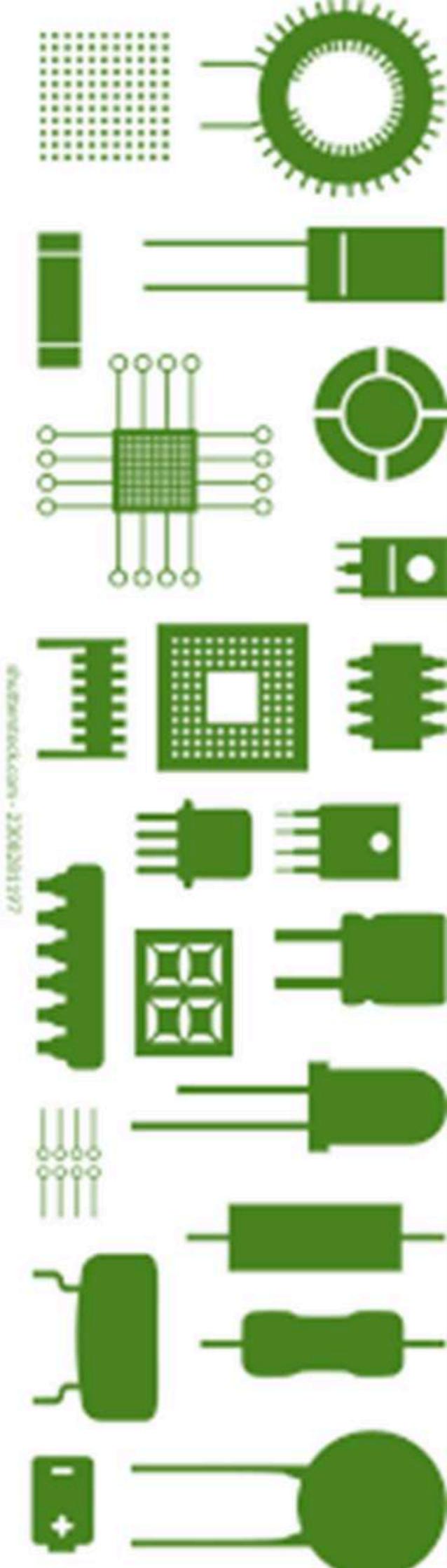
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# ABOUT US

At SAS Power, we believe that quality is the cornerstone of success. We adhere to the highest manufacturing standards and ethical practices, ensuring that every product bearing the SAS name is a testament to our dedication and integrity

## Why Choose SAS Power Semiconductor Devices?

Extensive Expertise Unwavering Quality Global Sourcing  
Competitive Pricing Ethical Practices

With over **45 years of unparalleled experience** in the semiconductor industry, SAS Power Semiconductor Devices stands as a beacon of excellence and innovation.

Since our inception in 2015, **we have been at the forefront of Manufacturing, Marketing & Trading** world-class silicon **Power diodes, thyristors, Power Modules, and other semiconductor devices.**

# OUR PRODUCTS



# POWER DIODES



# DIODE RECTIFIER IN STUD

TYPE	IF(AV)	VR RM V	@TC.C	IFSM A	VF VOLT	PACKAGE	FIG. NO
<b>DO-4</b>							
12AR/N 120	12 Amp	100-1600V	140	250	1.3	DO-4	1
16AR/N 120	16 Amp	100-1600V	140	300	1.2	DO-4	1
20AR/N 120	25 Amp	100-1600V	140	400	1.35	DO-4	1
<b>DO-5</b>							
25AR/N 120	25 Amp	100-1600V	140	400	1.35	DO-5	2A,2B
40AR/N 120	40 Amp	100-1600V	140	500	1.3	DO-5	2A,2B
60AR/N 120	60 Amp	100-1600V	140	800	1.3	DO-5	3A,3B
70AR/N 120	70 Amp	100-1600V	140	1000	1.3	DO-5	3A,3B
85AR/N 120	85 Amp	100-1600V	140	1200	1.4	DO-5	2A
40 HF/HFR 120	40 Amp	100-1600V	140	500	1.3	DO-5	2A
70 HF/HFR	70 Amp	100-1600V	140	1000	1.3	DO-5	2A
85 HF/HFR 120	85 Amp	100-1600V	140	1200	1.4	DO-5	2A

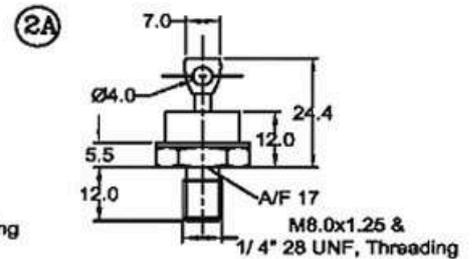
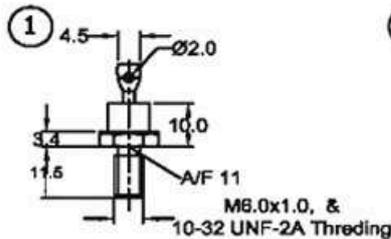
## Features :

- High Surge Current Capability
- Avalanche Type Available
- Stud Cathode & Stude Anode Version
- Types up 1600V VRRM

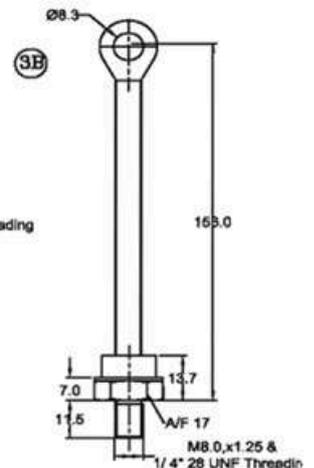
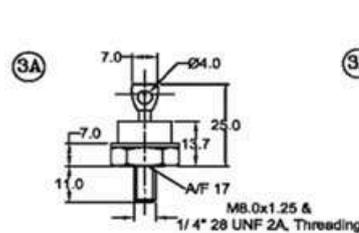
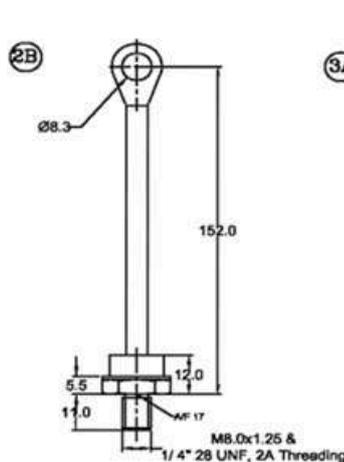
## Application :

- Battery Charger
- Converters
- Power Supplies
- Machine Tools
- Control Welding
- Electro-Plating

All Dimension are in mm.



## PHYSICAL DIMENSIONS



MAKE AVAILABLE - S-SEMI (OUR BRAND)

OTHER BRANDS - RIR/SEMIKRON/IRI and Many more as per the customer requirement

NBR- BHEL/HIRECT

# DIODE RECTIFIER IN STUD

## DIODE RECTIFIERS IN STUD

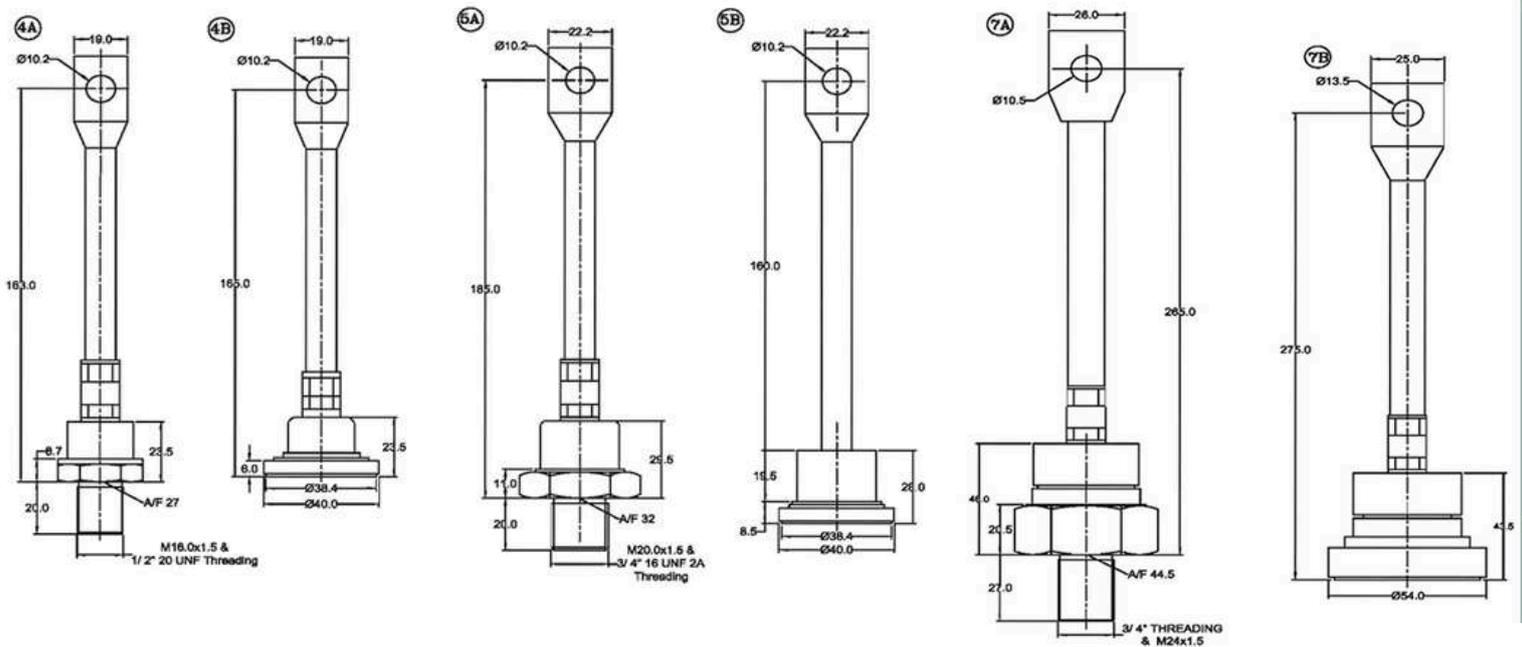
TYPE	IF(AV)	VR RM V	@TC.C	IFSM A	VF VOLT	PACKAGE	FIG. NO
<b>DO-8/ STUD &amp; FLAT</b>							
100AR/N- S120	100 Amp	100-1600V	140	2300	1.4	DO-8	4A
150AR/N- S120	150 Amp	100-1600V	140	3600	1.4	DO-8	4A
100AR/N- F120	100 Amp	100-1600V	140	2300	1.4	FLAT	4B
150AR/N- F120	150 Amp	100-1600V	140	3600	1.4	FLAT	4B
200AR/N- S120	200 Amp	100-1600V	140	4200	1.35	DO-8	4A
<b>DO-9/ STUD &amp; FLAT</b>							
200AR/N- S120	250 Amp	100-1600V	140	4300	1.4	DO-9	5A
250AR/N- S120	250 Amp	100-1600V	140	4500	1.4	DO-9	5A
250AR/N- F120	250 Amp	100-1600V	140	5000	1.4	FLAT	5B
300AR/N- S120	300 Amp	100-1600V	140	5000	1.35	DO-9	5A
300AR/N- F120	300 Amp	100-1600V	140	5000	1.35	FLAT	5B
321AR/N- S250	320 Amp	100-2500V	140	5500	1.65	DO-9	5A
350AR/N- S120	350 Amp	100-1600V	140	7000	1.32	DO-9	5A
410AR/N- S120	410 Amp	100-1600V	140	8000	1.35	DO-9	5A
<b>DO-41/ STUD &amp; FLAT</b>							
450AR/N- F120	410 Amp	100-1600V	140	8000	1.35	FLAT	7B
450AR/N- S120	450 Amp	100-1600V	140	9000	1.35	DO-41	7A
570AR/N- S430	570 Amp	100-4300V	140	12000	1.6	DO-41	7A
800AR/N- S250	800 Amp	100-3000V	140	14000	1.35	DO-41	7A

### Features :

- High Surge Current Capability
- Avalanche Type Available
- Stud Cathode & Stud Anode Version
- Types up 1600V VRRM

### Application :

- Battery Charger
- Converters
- Power Supplies
- Machine Tools
- Control Welding
- Electro-Plating



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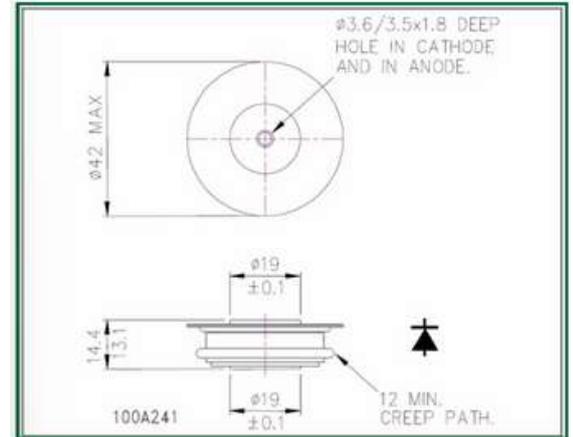
NBR- BHEL/HIRECT

# RECTIFIER DIODE IN CAPSULE

## STANDARD DIODE

TYPE	IF(AV)	VR RM V	@TC.C	IRMS	IFSM	VF VOLT	PACKAGI
<b>ST / SE / SG</b>							
DS 502 ST2000V	720 Amp	2000V	80	1100	6500	1.2	ST
DS 804 SE2000V	1030 Amp	2000V	80	1600	9000	1.3	SE
DS 912 SE2000V	600 Amp	5000V	80	940	5600	2.1	SG
DS 1107 SG3000V	1120 Amp	3000V	80	1700	12000	1.6	SG
<b>SF</b>							
DS 2009 SF4000V	1450 Amp	4000V	80	2300	16000	1.8	SF
DS 2007 SF4000V	1700 Amp	4000V	80	2700	20000	1.6	SF
DS 2004 SF2000V	2500 Amp	2400V	80	3900	25000	1.3	SF
DS 2002 SF1600V	2800 Amp	1600V	80	4400	33000	1.2	SF

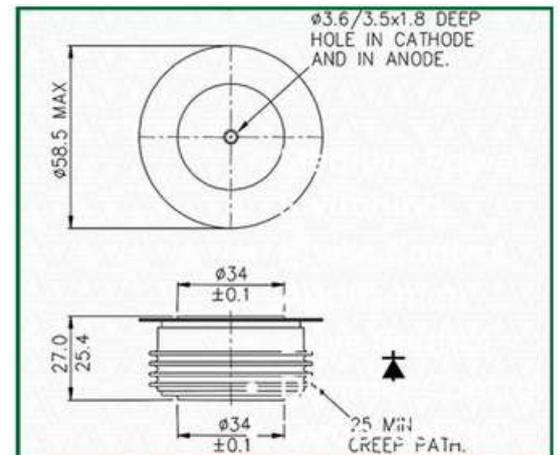
ST



## FAST RECOVERY DIODE

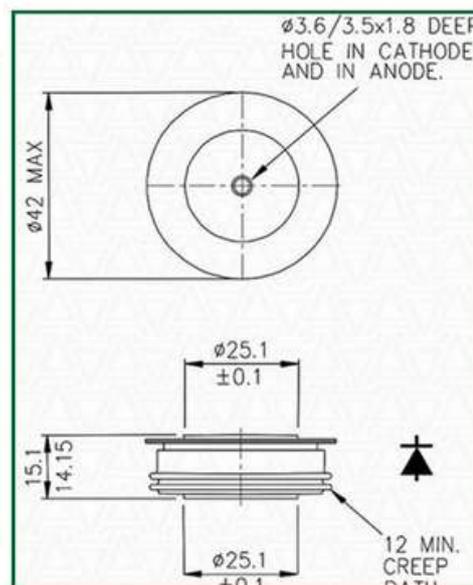
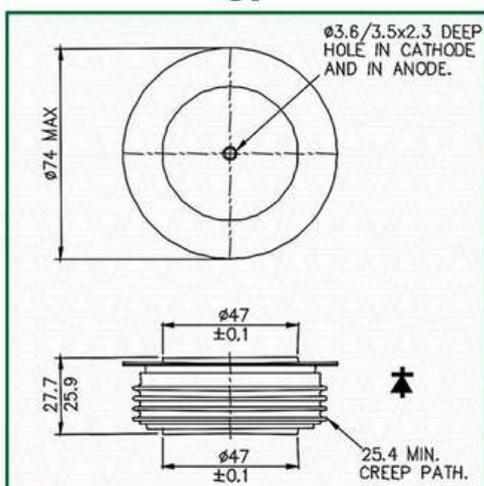
TYPE	IF(AV)	VR RM V	@TC.C	IRMS	IFSM	VF VOLT	PACKAGE
<b>ST / SE / SG</b>							
DF 502 ST2000V	720 Amp	2000V	80	1100	6500	1	ST
DF 804 SE2000V	1030 Amp	2000V	80	1600	9000	1	SE
DF 912 SE2000V	600 Amp	5000V	80	940	5600	2	SG
DF 1107 SG3000V	1120 Amp	3000V	80	1700	12000	2	SG
<b>SF</b>							
DF 2009 SF4000V	1450 Amp	4000V	80	2300	16000	2	SF
DF 2007 SF4000V	1700 Amp	4000V	80	2700	20000	2	SF
DF 2004 SF2000V	2500 Amp	2400V	80	3900	25000	1	SF
DF 2002 SF1600V	2800 Amp	1600V	80	4400	33000	1	SF

SG



SF

SE



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NBR- BHEL/HIRECT

# THYRISTORS



# THYRISTOR IN STUD

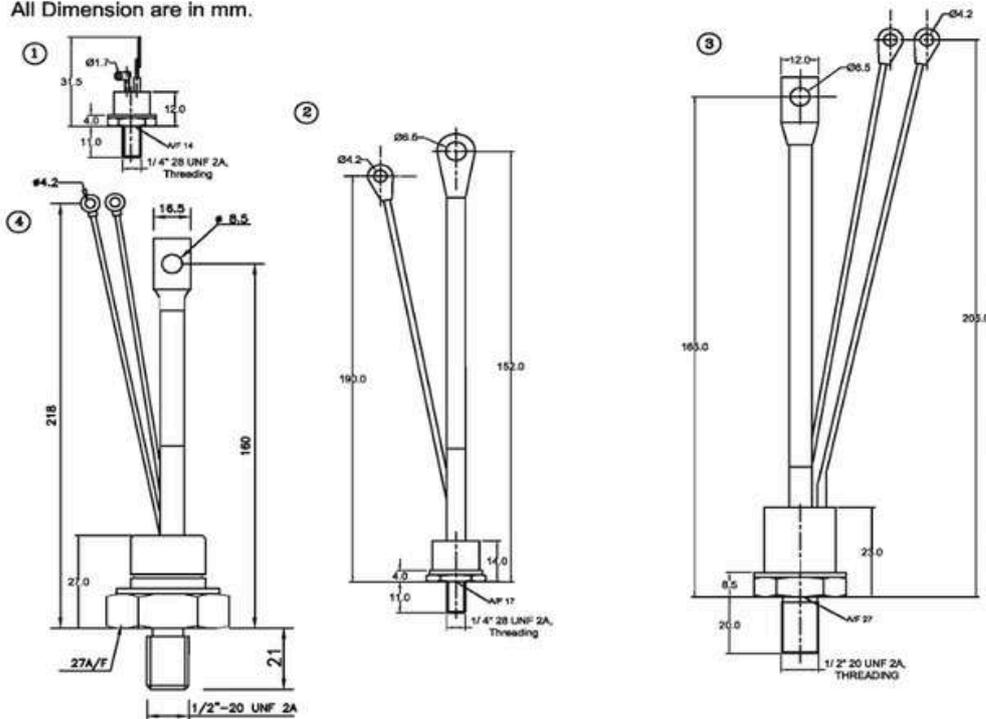
THYRISTOR IN STUD													
TYPE	VDRM/VDRR MV	IT (AV) A	IT RMS A	ITSM A	Di/Dt A/us	Dv/Dt V/us	VGtattGT V mA	VTM@ V A	IDRM/ IRRM mA	Mounting Torque NM	FIG. NO		
T 25 A	1600 V	25	40	350	200	300	2 60	1.7 75	8	2.5	1		
T 40 A	1600 V	40	65	1050	100	500	2.5 100	1.65 120	8	4	2		
T 50 A	1600 V	50	80	1200	100	500	2.5 100	1.6 120	8	4	2		
T 70 A	1600 V	70	110	1200	150	500	2.5 100	1.8 200	25	10	3		
T 155 A	1600 V	150	235	2700	1000	400	3 150	1.8 75	30	2.5	5		
T 175 A	1600 V	170	270	3900	1000	400	3 150	1.75 120	30	4	5		
T 235 A	1600 V	230	360	4800	1000	400	3 150	1.5 120	50	4	5		
T 81 A	1600 V	80	125	1600	300	500	2.5 120	1.6 300	30	10	5		
T 111 A	1600 V	110	175	2200	500	400	3 150	1.5 350	30	10	5		
T 125 A	1600 V	125	200	2500	500	400	3 150	1.55 400	30	10	5		
T 255 A	1600 V	250	400	5500	1000	400	3 200	1.7 800	30	60	6		
T 305 A	1600 V	300	470	6700	1000	400	3 200	1.7 1000	30	60	6		
T 355 A	1600 V	350	550	7500	1000	400	3 200	1.75 1400	50	-	6 & 7		



## PHASE CONTROL THYRISTOR - STUD/SQUARE BASE TYPE

## PHYSICAL DIMENSIONS

All Dimension are in mm.



### Features :

- Glass Passivated Chip
- High Reliability
- High Surge Current
- Standard Package
- Low Thermal Resistance

### Application :

- Medium Power Switching
- Phase Control Application
- Drive Control
- Dimmer Control
- Temp. Control

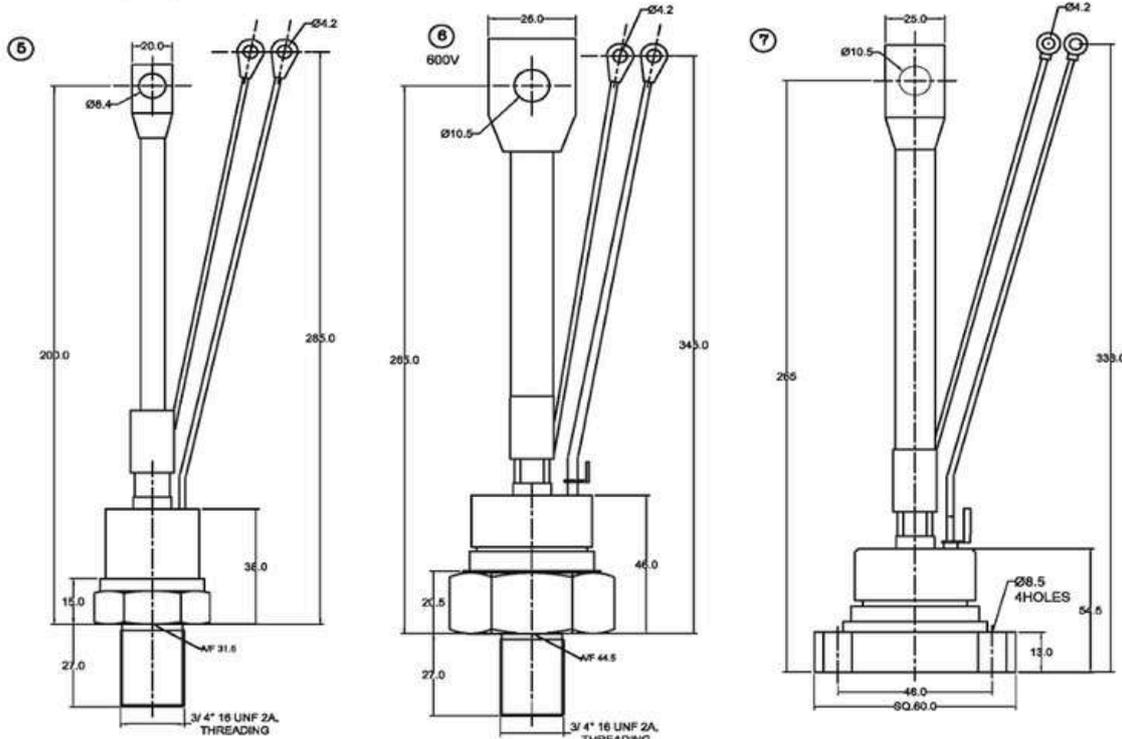
MAKE AVAILABLE - S-SEMI (OUR BRAND)

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NBR - HIRECT

# THYRISTOR IN STUD

THYRISTOR IN STUD													
TYPE	VDRM/VDRR MV	IT (AV) A	IT RMS A	ITSM A	Di/Dt A/us	Dv/Dt V/us	VGtattIGT V mA	VTM@ V A	IDRM/ IRRM mA	Mounting Torque NM	FIG. NO		
T 25 A	1600 V	25	40	350	200	300	2 60	1.7 75	8	2.5	1		
T 40 A	1600 V	40	65	1050	100	500	2.5 100	1.65 120	8	4	2		
T 50 A	1600 V	50	80	1200	100	500	2.5 100	1.6 120	8	4	2		
T 70 A	1600 V	70	110	1200	150	500	2.5 100	1.8 200	25	10	3		
T 155 A	1600 V	150	235	2700	1000	400	3 150	1.8 75	30	2.5	5		
T 175 A	1600 V	170	270	3900	1000	400	3 150	1.75 120	30	4	5		
T 235 A	1600 V	230	360	4800	1000	400	3 150	1.5 120	50	4	5		
T 81 A	1600 V	80	125	1600	300	500	2.5 120	1.6 300	30	10	5		
T 111 A	1600 V	110	175	2200	500	400	3 150	1.5 350	30	10	5		
T 125 A	1600 V	125	200	2500	500	400	3 150	1.55 400	30	10	5		
T 255 A	1600 V	250	400	5500	1000	400	3 200	1.7 800	30	60	6		
T 305 A	1600 V	300	470	6700	1000	400	3 200	1.7 1000	30	60	6		
T 355 A	1600 V	350	550	7500	1000	400	3 200	1.75 1400	50	-	6 & 7		



## Features :

- Glass Passivated Chip
- High Reliability
- High Surge Current
- Standard Package
- Low Thermal Resistance

## Application :

- Medium Power Switching
- Phase Control Application
- Drive Control
- Dimmer Control
- Temp. Control

MAKE AVAILABLE - S-SEMI (OUR BRAND)

OTHER BRANDS - RIR/IRI and Many more as per the customer requirement

NBR - HIRECT

# THYRISTOR IN CAPSULE

Phase Control Thyristor												
TYPE	VDRM/VDRR MV	IT (AV) A	IT RMS A	ITSM A	Di/Dt A/us	Dv/Dt V/us	VGTatIGT		VTM	IDRM/ IRRM mA	Mounting Torque NM	SIZE
							V mA	V				
DCR504ST	400 - 2000	450	660	5500	100	200	3	150	1.7	30	4.5	42 X 19 X14.5
DCR604SE	400 - 2000	700	910	7500	100	200	3	150	1.6	30	8	42 X 25 X14.5
DCR804SG	400 - 2000	900	1400	11000	100	300	3	200	1.6	50	12	58.5 X 34 X 27
DCR807SG	400 - 2000	900	1250	9000	100	300	3	200	2	50	12	74 X 47 X27
DCR1004SF	400 - 2000	1500	2450	21000	100	300	3	200	1.6	100	20	74 X 47 X27
DCR1007SF	400 - 2000	1200	1900	16000	100	300	3	200	2	100	20	74 X 47 X27
DCR1274SD	400 - 2000	1700	2600	27000	150	300	3	200	1.4	150	22	74 X 47 X27
DCR1474SY	1000 - 3000	3000	3350	29000	150	500	3	200	1.3	250	40	110 X 73 X 36
DCR1476SY	1000 - 4000	2200	3300	29000	150	500	3	200	1.8	250	40	110 X 73 X 36
DCR1059SF	1000 - 4500	1200	1800	18000	200	500	3	200	1.45	60	22	74 X 47 X27



## Features :

- Double Side Cooling
  - Highmean Current
  - High Surge Current
  - HIGH di/dt
  - Low Thermal Resistance
- Convertor

## Application :

- High Power Drive
- High Voltage Supply Motor supply
- High Temperature Control
- DC Power Supply & Contro
- Industrial furnace - controller



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NBR - WESTCODE/DYNEX/ INFINEON/ABB/PROTON/TECHSEM/HIRECT

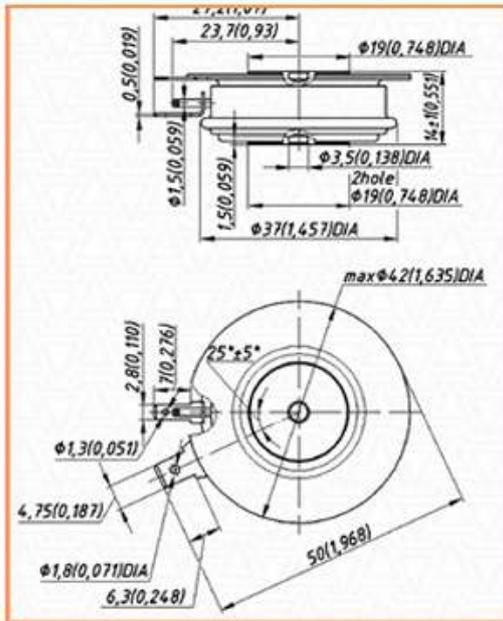
# THYRISTOR IN CAPSULE

THYRISTOR IN CAPSULE / PHASE CONTROL THYRISTOR

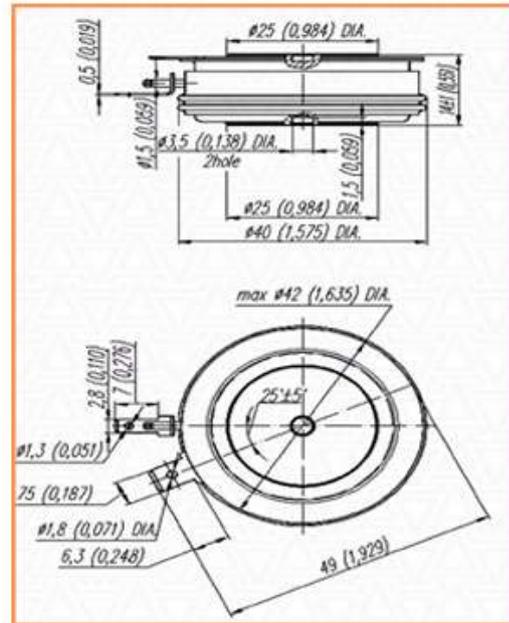
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N0465	800-2500	465 Amp	920	4500	125	1000	2.50 250	1.3	50	5,7	WN
N0530	800-2500	530	1040	6300	160	1000	2.50 250	1.57	70	9,11	YN
N0795	800-2500	795	1580	9450	500	1000	2.50 250	2	30	9,11	YN
N0646	800-2500	646	1258	5700	400	1000	3.0 300	2.71	60	10,20	LC
N0910	800-2500	910	1788	9200	600	1000	3.0 300	2.07	60	10,20	LC
N1052	800-2500	1052	2081	13200	400	1000	3.0 300	2.46	60	10,12	LC
N1132	800-3000	1132	2228	14300	400	1000	3.0 300	2.08	100	19,26	NC
N1467	800-3000	1467	2228	21500	500	1000	3.0 300	1.7	100	19,26	NC
N1802	800-3000	1802	2228	29600	500	1000	3.0 300	1.29	100	19,26	NC
N2086	800-4000	2086	2228	35000	500	1000	3.0 300	1.12	100	19,26	NC
N1661	800-3000	1661	2228	23000	300	1000	3.0 300	2.17	150	27,34	VC
N2293	800-4000	2293	2228	33800	150	1000	3.0 300	1.43	150	27,34	VC
N1661	800-3000	1661	2228	23000	300	1000	3.0 300	2.17	150	27,34	VF
N2293	800-4000	2293	2228	33800	150	1000	3.0 300	1.43	150	27,34	VF
N2418	800-4000	2418	2228	30000	150	200	3.0 300	1.9	200	27,47	ZC
N3012	800-4000	3012	2228	45100	150	1000	3.0 300	1.4	200	27,47	ZC
N2418	800-4000	2418	2228	30000	150	200	3.0 300	1.9	200	27,47	ZD
N3930	800-4500	3930	2228	54000	150	1000	3.0 300	1.25	200	27,47	ZC
N3012	800-4000	3012	2228	45100	150	1000	3.0 300	1.4	200	27,47	ZD
N3930	800-4500	3930	2228	54000	150	1000	3.0 300	1.25	200	27,47	ZD



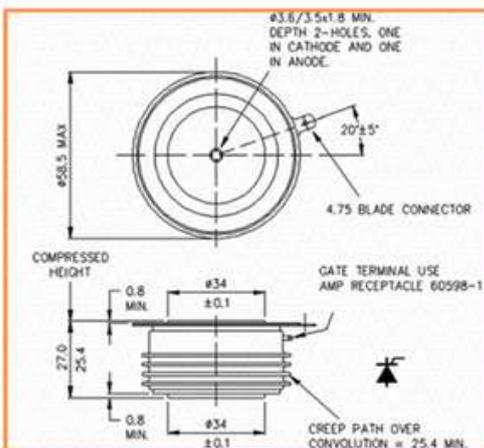
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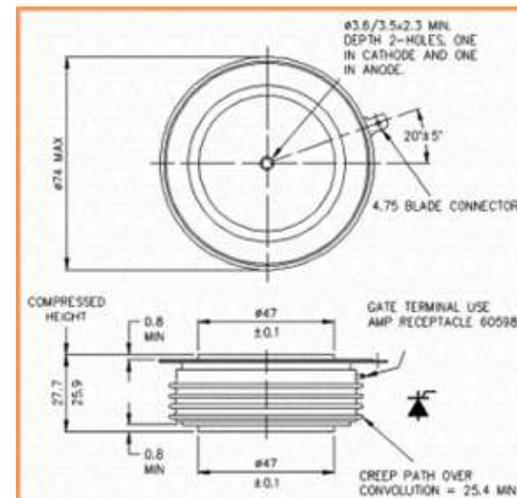
## YN



## LC



## NC



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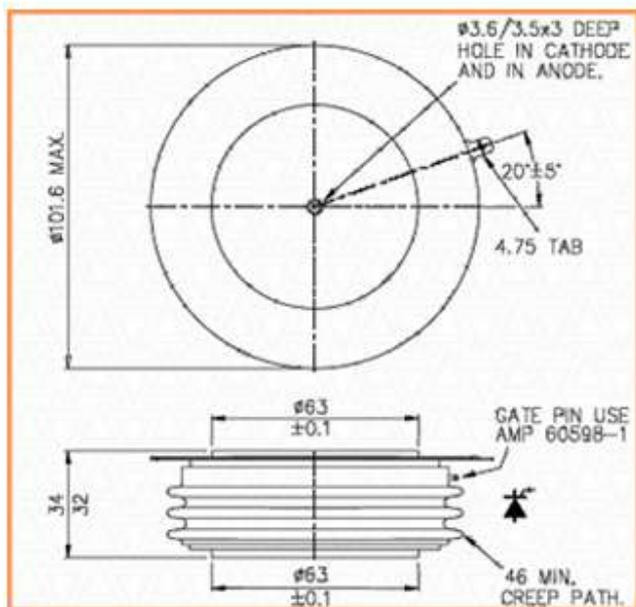
# THYRISTOR IN CAPSULE

DISTRIBUTED GATE THYRISTOR

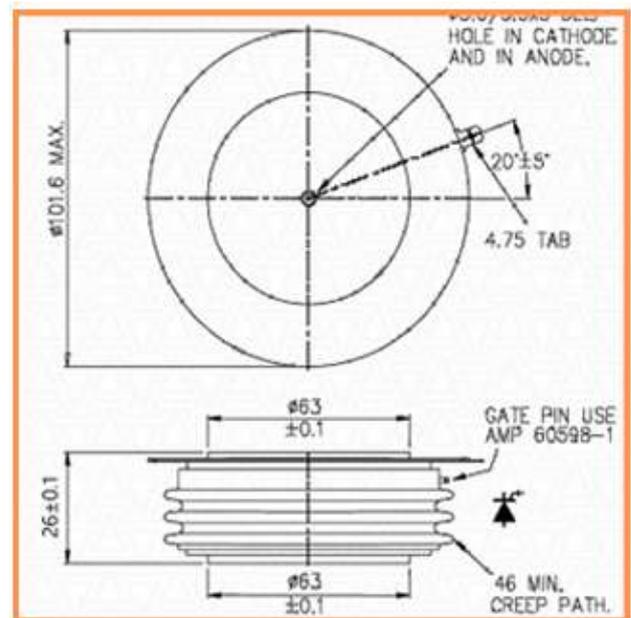
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							V mA	V A					
R0472	800-2500	470	945	4300	500	1000	3	200	2.8	60	4, 6	20-30	YN
R0633	800-2500	633	1268	6300	500	1000	3	200	1.85	60	5, 9	20-30	YN
R0830	800-2500	830	1713	8500	500	1000	3	200	2.4	70	10, 20	20-30	LC
R0929	800-2500	929	1893	9000	1000	200	3	200	2.04	70	10, 20	20-30	LC
R0990	800-2500	990	2001	11000	1000	200	3	200	1.84	70	10, 20	20-30	LC
R1124	800-2500	1124	2263	13500	1000	200	3	300	2.3	150	19, 26	50-70	NC
R1275	800-2500	1275	2541	15500	1000	200	3	300	1.9	150	19, 26	50-70	NC
R1448	800-3000	1448	2916	15500	1000	200	3	300	1.8	150	19, 26	50-70	NC
R2619	800-3000	2619	4978	31000	1000	200	3	300	2.55	300	27-47	40-70	ZC
R2619	800-4500	2619	4978	31000	1000	200	3	300	2.55	300	27-47	40-70	ZD



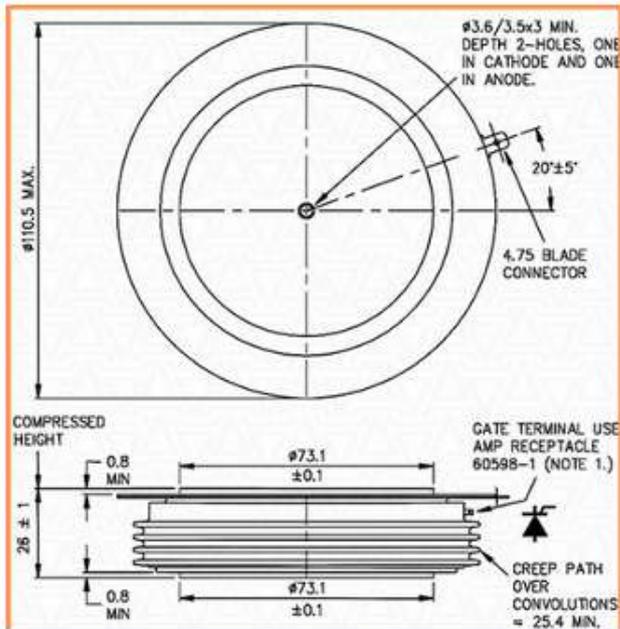
VC



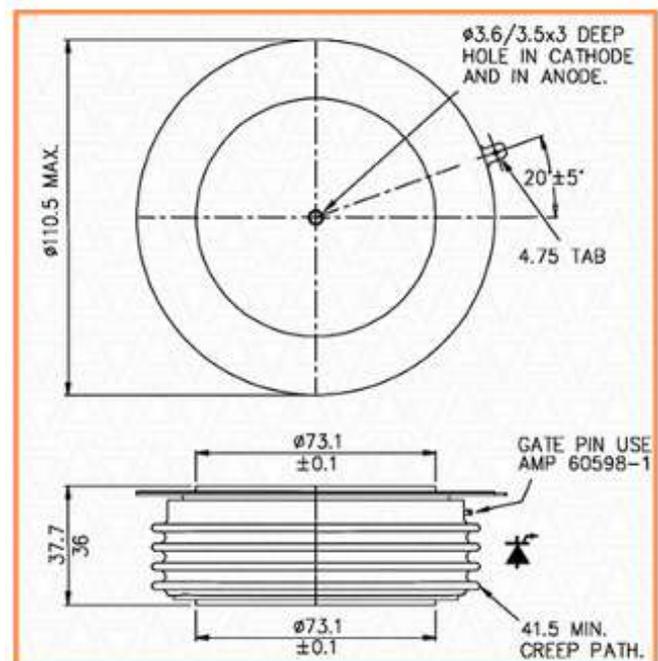
VF



ZD



ZC



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NBR - WESTCODE/DYNEX/INFINEON/ABB/PROTON/TECHSEM/HIRECT



# THYRISTOR MODULE



# THYRISTOR MODULES

Part Number	Voltage (VRRM)	Current (ITAV / IFAV)	Description
SKKD 100/18	1800 V	100 A	Dual Diode Module
SKKD 101/16	1600 V	100 A	Dual Diode Module
SKKD 380/16	1600 V	380 A	Dual Diode Module
SKKH 57/16E	1600 V	50 A	Thyristor + Diode Series
SKKH 92/16E	1600 V	95 A	Thyristor + Diode Series
SKKH 162/16E	1600 V	160 A	Thyristor + Diode Series
SKKH 570/16E	1600 V	570 A	Thyristor + Diode Series
SKKT 27B/16E	1600 V	27 A	Dual Thyristor Module
SKKT 57B/16E	1600 V	57 A	Dual Thyristor Module
SKKT 92B/16E	1600 V	92 A	Dual Thyristor Module
SKKT 106B/16E	1600 V	106 A	Dual Thyristor Module
SKKT 106B/18E	1800 V	106 A	Dual Thyristor Module
SKKT 107B/16E	1600 V	107 A	Dual Thyristor Module
SKKT 107/22E	2200 V	107 A	Dual Thyristor Module
SKKT 162/16E	1600 V	160 A	Dual Thyristor Module
SKKT 210/18E	1800 V	210 A	Dual Thyristor Module
SKKT 250/16E	1600 V	250 A	Dual Thyristor Module
SKKT 250/22E	2200 V	250 A	Dual Thyristor Module
SKKT 273/16E	1600 V	273 A	Dual Thyristor Module
SKKT 330/16E	1600 V	330 A	Dual Thyristor Module
SKKT 570/16E	1600 V	570 A	Dual Thyristor Module
SKKT 570/18E	1800 V	570 A	Dual Thyristor Module



**MAKE AVAILABLE - SEMIKRON/STARPOWER/  
SANREX/RIR/NSL/IRI**

**Further variety of Modules , IGBT and Bridge  
Rectifier are available as per customer demand**

# OTHER PRODUCTS



# OUR PRODUCTS



## SOLID STATE RECTIFIER – FEATURES

SPS rectifiers introduce full wave bridge operation which is more efficient than a half wave.

Very fast reaction: rectifier supplies DC voltage to brake, when power is off, there is no holding power in the SPS rectifier, so brake is very quick to stop.

SPS rectifiers operate dc switching and without DC switching

RECTIFIER SERIES			
INPUT	OUTPUT	CURRENT AT 60 C	DIMENSIONS
230 VAC	96 VDC	2-5 AMP	54.2 x 45 x 26
415 VAC	190 VDC	2-5 AMP	54.2 x 45 x 26
440 VAC	190 VDC	2-5 AMP	54.2 x 45 x 26

Available in different input and output



## AUTO DIODE – FEATURES

25ADN/ADR 120 ( BYY58-1500 )

(BYY57-1500) 50ADN/ADR 120

( 50 Amp -1500 V )

HDE 3515 ( Auto diode with Tag )

HDIE 3515 ( Auto diode with Tag )

### Other Products

1. Solar Fuse
2. Microswitches
3. MCB
4. RCCB
5. CONTACTOR
6. COOLING FAN
7. ESD MATERIAL

### 8. AVR

### 9. Selenium Rectifier

### 10. Heatsink of Diode and Thyristor

### 11. Bridge Rectifier of ALL phase

### 12. Watercooled assembly

### 13. Monoblock

### 14. Thermostate (Honeywell+Microtherm)

### 15. AJIK Series (YUDIAN)

# SEMICONDUCTOR FUSE

Rated Voltage	Rated Current (Amps)	Pre-arcing	Clearing at 660VAC	Watt Loss (w)	-/80 Visual Indicator	-TN/80 Type T Indicator for Micro	-KN/80 TYPE K Indicator for Micro	-/110 Visual Indicator	-TN/110 Type T Indicator for Micro	-KN/110 Type K Indicator for Micro
	40	40	270	9	170M3008	170M3058	170M3108	170M3158	170M3208	170M3258
	50	77	515	11	170M3009	170M3059	170M3109	170M3159	170M3209	170M3259
	63	115	770	14	170M3010	170M3060	170M3110	170M3160	170M3210	170M3260
	80	185	1250	18	170M3011	170M3061	170M3111	170M3161	170M3211	170M3261
	100	360	2450	21	170M3012	170M3062	170M3112	170M3162	170M3212	170M3262
690 V a.c.	125	550	3700	26	170M3013	170M3063	170M3113	170M3163	170M3213	170M3263
	160	1100	7500	30	170M3014	170M3064	170M3114	170M3164	170M3214	170M3264
(IEC)	200	2200	15,000	35	170M3015	170M3065	170M3115	170M3165	170M3215	170M3265
1*	250	4200	28,500	40	170M3016	170M3066	170M3116	170M3166	170M3216	170M3266
700 V a.c.										
(UL)	315	7000	46,500	50	170M3017	170M3067	170M3117	170M3167	170M3217	170M3267
	350	10,000	68,500	55	170M3018	170M3068	170M3118	170M3168	170M3218	170M3268
	400	15,000	1,05,000	60	170M3019	170M3069	170M3119	170M3169	170M3219	170M3269
	450	21,000	1,40,000	65	170M3020	170M3070	170M3120	170M3170	170M3220	170M3270
	500	27,000	1,80,000	70	170M3021	170M3071	170M3121	170M3171	170M3221	170M3271
	550	34,000	2,30,000	75	170M3022	170M3072	170M3122	170M3172	170M3222	170M3272
	630	48,500	3,25,000	80	170M3023	170M3073	170M3123	170M3173	170M3223	170M3273
	200	1650	11,500	45	170M4008	170M4058	170M4108	170M4158	170M4208	170M4258
	250	3100	21,000	55	170M4009	170M4059	170M4109	170M4159	170M4209	170M4259
	315	6200	42,000	58	170M4010	170M4060	170M4110	170M4160	170M4210	170M4260
	350	8500	59,000	60	170M4011	170M4061	170M4111	170M4161	170M4211	170M4261
690 V a.c.	400	13,500	91,500	65	170M4012	170M4062	170M4112	170M4162	170M4212	170M4262
(IEC)	450	17,000	1,20,000	70	170M4013	170M4063	170M4113	170M4163	170M4213	170M4263
1	500	25,000	1,70,000	72	170M4014	170M4064	170M4114	170M4164	170M4214	170M4264
700 V a.c.										
(UL)	550	34,000	2,30,000	75	170M4015	170M4065	170M4115	170M4165	170M4215	170M4265
	630	52,000	3,50,000	80	170M4016	170M4066	170M4116	170M4166	170M4216	170M4266
	700	69,500	4,65,000	85	170M4017	170M4067	170M4117	170M4167	170M4217	170M4267
	800	1,05,000	7,25,000	95	170M4018	170M4068	170M4118	170M4168	170M4218	170M4268
	9002	1,55,000	85,00,002	100	170M4019	170M4069	170M4119	170M4169	170M4219	170M4269
	400	11,000	74,000	65	170M5008	170M5058	170M5108	170M5158	170M5208	170M5258
	450	15,500	1,05,000	70	170M5009	170M5059	170M5109	170M5159	170M5209	170M5259
	500	21,500	1,45,000	75	170M5010	170M5060	170M5110	170M5160	170M5210	170M5260
	550	28,000	1,90,000	80	170M5011	170M5061	170M5111	170M5161	170M5211	170M5261



# SEMICONDUCTOR FUSE

Rated Voltage	Rated Current (Amps)	Pre-arcing	Clearing at 660VAC	Watt Loss (w)	-/80 Visual Indicator	-TN/80 Type T Indicator for Micro	-KN/80 TYPE K indicator for Micro	-/110 Visual Indicator	-TN/110 Type T indicator for Micro	-KN/110 Type K indicator for Micro
690 V a.c. (IEC)	630	41,000	2,75,000	90	170M5012	170M5062	170M5112	170M5162	170M5212	170M5262
	700	60,500	4,05,000	95	170M5013	170M5063	170M5113	170M5163	170M5213	170M5263
700 V a.c. (UL)	800	86,000	5,75,000	105	170M5014	170M5064	170M5114	170M5164	170M5214	170M5264
	900	1,25,000	8,40,000	110	170M5015	170M5065	170M5115	170M5165	170M5215	170M5265
	1000	1,80,000	12,50,000	115	170M5016	170M5066	170M5116	170M5166	170M5216	170M5266
	11003	2,45,000	16,00,000	120	170M5017	170M5067	170M5117	170M5167	170M5217	170M5267
	12503	3,65,000	24,00,000	130	170M5018	170M5068	170M5118	170M5168	170M5218	170M5268
	500	14,000	95,000	95	170M6008	170M6058	170M6108	170M6158	170M6208	170M6258
	550	19,500	1,35,000	100	170M6009	170M6059	170M6109	170M6159	170M6209	170M6259
	630	31,000	2,10,000	105	170M6010	170M6060	170M6110	170M6160	170M6210	170M6260
	700	44,500	3,00,000	110	170M6011	170M6061	170M6111	170M6161	170M6211	170M6261
	800	69,500	4,65,000	115	170M6012	170M6062	170M6112	170M6162	170M6212	170M6262
690 V a.c. (IEC)	900	1,00,000	6,70,000	120	170M6013	170M6063	170M6113	170M6163	170M6213	170M6263
	1000	1,40,000	9,45,000	125	170M6014	170M6064	170M6114	170M6164	170M6214	170M6264
3	1100	1,90,000	13,00,000	130	170M6015	170M6065	170M6115	170M6165	170M6215	170M6265
700 V a.c. (UL)										
	1250	2,90,000	19,50,000	140	170M6016	170M6066	170M6116	170M6166	170M6216	170M6266
	1400	3,70,000	24,50,000	155	170M6017	170M6067	170M6117	170M6167	170M6217	170M6267
	1500	4,60,000	31,00,000	160	170M6018	170M6068	170M6118	170M6168	170M6218	170M6268
	1600	5,80,000	39,00,000	160	170M6019	170M6069	170M6119	170M6169	170M6219	170M6269
	18004	8,80,000	5,25,00,004	165	170M6020	170M6070	170M6120	170M6170	170M6220	170M6270
	20005	11,50,000	6,35,00,005	175	170M6021	170M6071	170M6121	170M6171	170M6221	170M6271



## Catalogue symbol

- FWA-(amps)A10F (5 to 30 A)
- FWA-(amps)A21F (35 to 60 A)

## Description

Square body DIN 43653 bolted tags high speed fuse links, for the protection of DC common bus, DC drives, power converters/rectifiers and reduced rated voltage.

## Technical data

- Rated voltage:
  - 690 V a.c. (IEC)
  - 700 V a.c. (UL)
- Rated current: 40 - 2000 A
- Breaking capacity: 200 kA RMS Sym
- Operating class: aR

## Agency information

- CE
- Designed and tested to IEC 60269 part 4
- UL recognised E125085 JFHR2
- CSA Certified Class 53787, File 1422-30
- CCC expect where specified

## Features and benefits

- Excellent DC performance
- Low arc voltage and low energy let-through (I<sup>2</sup>t)
- Low watts loss
- Superior cycling capability

## Typical applications

- DC common bus
- DC drives
- Power converters/rectifiers
- Reduced voltage starters

## Pack quantity

- Body size 1\*: 6 per pack
- Body size 1: 3 per pack
- Body size 2: 3 per pack
- Body size 3:
  - 3 per pack for -/80 and -TN/80
  - 1 per pack for -KN/80, -/110, -TN/110 and -KN/110

## Fuse link weight

- Body size 1\*: 0.07 kg
- Body size 1: 0.18 kg
- Body size 2: 0.23 kg
- Body size 3: 0.63 kg

These fuses are essential for protecting sensitive power semiconductor devices and are now available with popular part numbers such as:

Jean Müller: NH00GG50V, NHIGG80V, SITOR Series  
 HRC: HRC22B100, HRC32F200, FWH Series  
 EATON Bussmann: 170M1413, 170M3816, 170M2613, FUSETRON Series  
 ...and many more!

Whether you're looking for standard replacements or high-performance fuses for demanding industrial applications, our expanded fuse lineup has you covered.

# OUR PRODUCTS



## SOLID STATE RELAY- FEATURES

### A. Panel Mount Solid State Relays

The core of our display. These units are designed for direct mounting on heat sinks to manage thermal dissipation effectively.

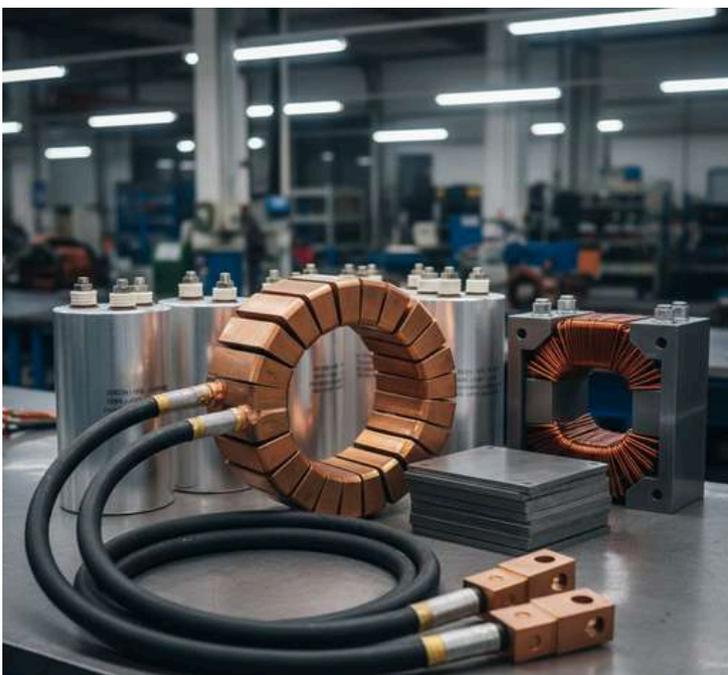
- **Current Ratings:** Available in 25A, 40A, 50A, 80A, 100A, and 150A configurations.
- **Typical Applications:** Plastic machinery, ovens, HVAC systems, and packaging equipment.

### B. Multi-Channel & Specialized Modules

- **Dual/Three-Phase Units:** (Top right of your image) Larger modules designed for high-power three-phase motor control and industrial heaters.
- **DIN-Rail Mount Modules:** (Bottom right of your image) Slim-profile relays with integrated DIN-rail clips for space-saving panel installations.

### C. Industrial Protection Features

- **Built-in Snubbers:** Protects against high  $dv/dt$  transients.
- **LED Indicators:** Real-time visual status of input/output activity.
- **IP20 Finger-Safe Covers:** (Available on select models) Ensuring operator safety during maintenance



## INDUCTION FURNACE SPARES

### Heating & Magnetic Components

- **Induction Coils:** Heavy-duty copper tubing wound into a coil. This creates the magnetic field that induces heat directly into the metal.
- **Water-Cooled Leads/Cables:** Large, flexible cables that carry high current to the coil while circulating water to prevent overheating.
- **Yokes (Shunts):** Laminated steel stacks that guide the magnetic field and support the coil.

### Electrical & Capacitor Systems

- **Power Capacitors:** Large banks of capacitors used to correct the power factor and tune the frequency of the furnace circuit.
- **DC Chokes / Reactors:** Heavy copper coils that smooth out the DC current flowing from the rectifier to the inverter.



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and lets connect**

