

# 25 F / 25 FR

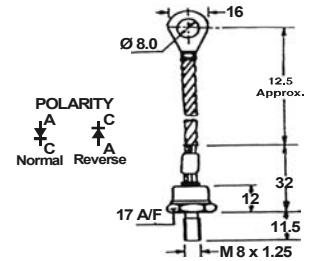
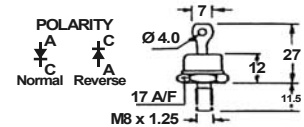
## SILICON POWER DIODE



**NAINA**

DO-5

25 F / FR



### FEATURES

- All Diffused Series
- Available in Normal & Reverse Polarity
- Industrial Grade
- Available In Avalanche Characteristic
- \* Available in metric and UNF thread

### ELECTRICAL SPECIFICATIONS

25F/FR		
$I_{F(AV)}$	Maximum Average Forward Current $T=140^{\circ}\text{C}$	25A
$V_{FM}$	Maximum peak forward voltage drop @ Rated $I_{F(AV)}$	1.25V
$I_{FSM}$	Maximum peak one cycle (non-rep) surge current 10 m sec	400 A
$I_{FRM}$	Maximum peak repetitive surge current@	150A
$I^2t$	Maximum $I^2t$ rating (non-rep.) for 5 to 10 m sec.	800A <sup>2</sup> Sec

### THERMAL MECHANICAL SPECIFICATIONS

$\theta_{JC}$	Maximum thermal resistance Junction to case	1.5°C/W
$T_j$	Operating Junction Temp.	-65°C to 150°C
$T_{stg}$	Storage temperature	-65°C to 150°C
	Mounting torque (Non-lubricated threads)	0.14 M-kG min, 0.17 M-kG max
$W$	Approx, weight	7 gms.

### ELECTRICAL RATINGS

TYPE	NUMBER 25F/FR	10	20	40	60	80	100	120	140	160
VRRM	Max. repetitive peak reverse voltage (v)	100	200	400	600	800	1000	1200	1400	1600
VR(RMS)	Max. R.M.S. reverse voltage (V)	70	140	280	420	560	700	840	980	1120
VR	Max. D.C. Blocking Voltage (V)	100	200	400	600	800	1000	1200	1400	1600
	Recommended R.M.S. working Voltage(v)	40	80	160	240	320	400	480	560	640
$i_R(AV)$	Max. Average reverse leakage current @ VRRM $T_c 25^{\circ}\text{C}$ uA	150	150	150	150	150	150	150	150	150

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