

85HF / 85HFR

SILICON POWER DIODE



NAINA

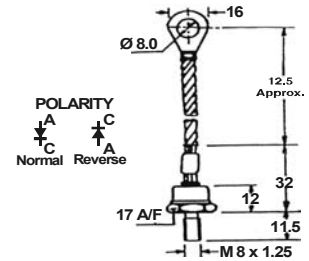
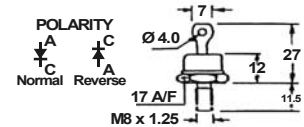
DO-5

FEATURES

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

ELECTRICAL SPECIFICATIONS

I_F	Maximum Average Forward Current $T=125^{\circ}\text{C}$	85A
V_{FM}	Maximum peak forward voltage drop @ Rated $I_F(AV)$	1.4V
I_{FSM}	Maximum peak one cycle (non-rep) surge current 10 m sec	1270 A
I_{FRM}	Maximum peak repetitive surge current	405 A
I^2t	Maximum I^2t rating (non-rep.) for 5 to 10 msec.	8064 $\text{A}^2 \text{Sec}$



THERMAL MECHANICAL SPECIFICATIONS

θ_{JC}	Maximum thermal resistance Junction to case	0.50°C/W
T_J	Operating Junction Temp.	-65°C to 150°C
T_{stg}	Storage temperature	-65°C to 200°C
	Mounting torque (Non-lubricated threads)	0.4 M-kg min, 0.6 M-kg max
W	Approx, weight	13.5 & 30 gms.

ELECTRICAL RATINGS

TYPE	85HF/HFR	10	20	40	60	80	100	120	140	160
V_{RRM}	Max. repetitive peak reverse voltage (v)	100	200	400	600	800	1000	1200	1400	1600
$V_R(RMS)$	Max. R.M.S. reverse voltage(V)	70	140	280	420	560	700	840	980	1120
V_R	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 @ $V_{RRM} T_c 25^{\circ}\text{C} \mu\text{A}$	200	200	200	200	200	200	200	200	200

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