

# 40HF/40HFR

## SILICON POWER DIODES



**NAINA**

DO-5

### FEATURES

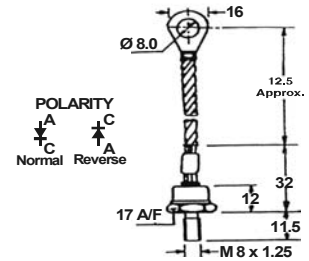
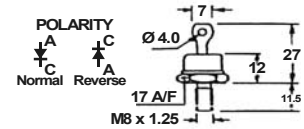
- All Diffused Series
- Available in Normal & Reverse Polarity
- Industrial Grade
- Available In Avalanche Characteristic

\* Available in metric and UNF thread

### ELECTRICAL SPECIFICATIONS

$I_{F(AV)}$	Maximum Average Forward Current $T_c=140^\circ\text{C}$	40A
$V_{FM}$	Maximum peak forward voltage drop @ Rated $I_{F(AV)}$	1.2V
$I_{FRM}$	Maximum peak one cycle (non-rep) surge current 10 m sec	500 A
$I_{FRM}$	Maximum peak repetitive surge current	200 A
$I^2t_{Max}$	Maximum $I^2t$ rating (non-rep.) for 5 to 10 m sec	1200A <sup>2</sup> Sec

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### THERMAL MECHANICAL SPECIFICATIONS

$\theta_{JC}$	Maximum thermal resistance Junction to case	1°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	40HF/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 @ $V_{RRM} T_c 25^\circ\text{C}$ uA	200	200	200	200	200	200	200	200	200

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