## SILICON RECTIFIERS

## **40 Ampere Silicon Power Diodes**

### FEATURES DO-5

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

#### ELECTRICAL SPECIFICATIONS 40HF/HFR

IF(AV)	Maximum Average Forward Current Tc = 140°c	40A		
V <sub>FM</sub>	Maximum peak forward voltage drop @ Rated 1F(AV)	1.3 V		
Ifsm	Maximum peak one cycle (non-rep) surge current 10 msec	500 A		
IFRM	Maximum peak repetive surge current	200 A		
I2 <b>t</b>	Maximum I <sup>2</sup> t rating (non-rep.) for 5 to 10 msec.	1200A A² Sec		

### THERMAL MECHANICAL SPECIFICATIONS

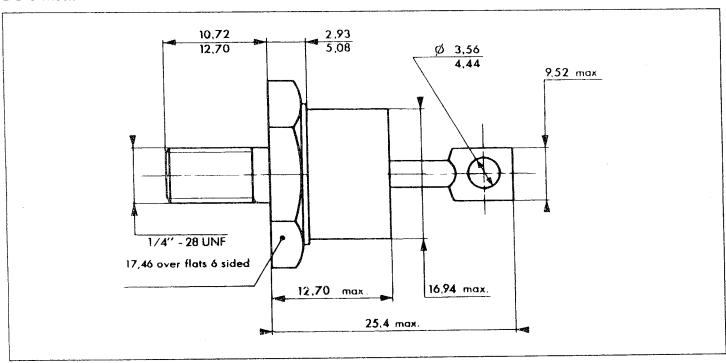
OJ-C	Maximum thermal resistance junction to case	0.65°C/W
TJ	Operating Junction Temp.	-65°C to 150°C
Tstg	Storage temperature.	-65°C to 200°C
	Mounting torque	0.4 M-Kg min.
	(Non-lubricated threads)	0.6 M-kg max.
W	Approx. weight	13.5 & 30 gms.

#### ELECTRICAL RATING

TYPE	NUMBER 40HF/HFR	10	20	40	60	80	100	120	140	160
VRRM	Max. repetitive peak 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
IR(AV)	Max. Average reverse leakage current @VRRM Tc 25° C (uA)	100	100	100	100	100	100	100	100	100

### PACKAGE MECHANICAL DATA

#### DO 5 Metal



Marking : Cathode connected to case : type number Anode connected to case : type number + suffix  ${\sf R}$ 

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