

40HFR160

STANDARD RECOVERY DIODE



Features

- Standard recovery diode
- Available in Normal and Reverse polarity
- Stud anode version
- Industrial grade
- Available in avalanche characteristic
- · Available in metric and UNF thread
- DO-5 1/4" 28UNF-2A

Typical applications

- · Battery charges
- Converters
- Power supplies
- Machine tool controls
- Welding

Compliance to RoHS.

ELECTRICAL SPECIFICATIONS (Te = 25°C)

Symbol	Ratings		Value	Unit	
V _{RRM}	Maximum repetitive peak reverse voltage	T _e = 25°C	1600	V	
I _{F(AV)}	Maximum average forward current	$T_e = 140$ °C	40	Α	
V _{FM}	Maximum peak forward voltage drop	I _{F(AV)} rated	1.2	V	
I _{FSM}	Maximum peak one cycle (non-rep) surge current	10 ms	500	А	
I _{FRM}	Maximum peak repetitive surge current		200	А	
l ² t	Maximum I ² t rating (non-rep)	For 5 to 10 ms	1200	A ² s	



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THERMAL CHARACTERISTICS

Symbol	Ratings	Value	Unit	
R _{thJC}	Maximum thermal resistance, junction to case	1	°C/W	
TJ	Operating junction temperature range	-65 to 150	°C	
T _{stg}	Storage temperature	-65 to 200	°C	
F	Mounting torque (non-lubricated threads)	>0.4 <0.6	M-kg	
W	Approximate weight	13.5 & 30	gr.	

ELECTRICAL CHARACTERISTICS

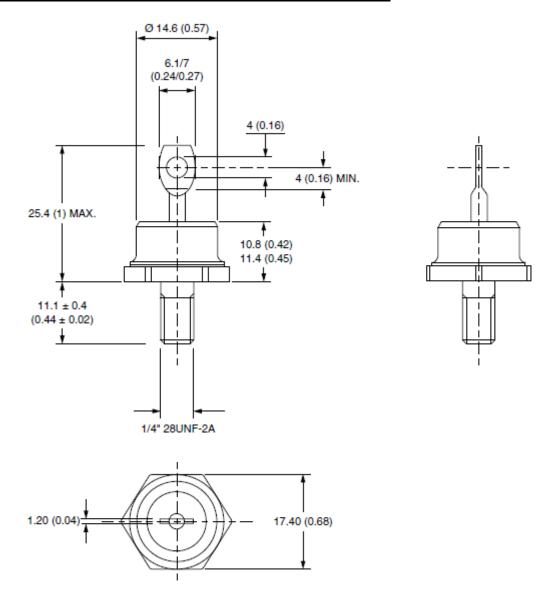
TE=25°C unless otherwise noted

Symbol	Ratings	Test Condition(s)	Min	Тур	Max	Unit
V _{RRM}	Repetitive peak reverse blocking voltage	$T_j = -25^{\circ}C \text{ to } +125^{\circ}C$	1600	-	1	V
V _{RSM}	Maximum D.C. blocking voltage	$T_j = -25^{\circ}C \text{ to } +125^{\circ}C$	1600	-	-	٧
V _{R(RMS)}	Maximum RMS reverse voltage	$T_j = -25^{\circ}C \text{ to } +125^{\circ}C$	1120	-	-	٧
	Recommended R.M.S. working voltage	$T_j = -25^{\circ}\text{C to } +125^{\circ}\text{C}$	640	1	-	٧
I _{R(AV)}	Max. Average reverse leakage current	$V_{RRM} = 1600 \text{ V}$ $T_j = -25^{\circ}\text{C}$	200	-	-	μΑ



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MECHANICAL DATA CASE DO-5 in millimeters (inches)



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