

40HF SERIES

100V – 1600 Volts

40 Amps

Features:

- High current carrying capability
- High voltage ratings up to 1600V
- High surge current capabilities
- Stud cathode and stud anode versions



PICTURE IS FOR REFERENCE ONLY

ELECTRICAL CHARACTERISTICS AND RATINGS

Parameter	Symbol	Value	Units	Conditions
Max. average forward current	$I_{F(AV)}$	40	A	$T_C = 140^{\circ}C$
Max. peak forward voltage drop	V_{FM}	1.35	V	Rated $I_{F(peak)}$
Max. peak one cycle non-repetitive surge current	I_{FSM}	500	A	10msec
Max. repetitive peak forward current	I_{FRM}	200	A	
Max. I^2t rating (non-repetitive) for 10msec	I^2t	1250	A ² sec	

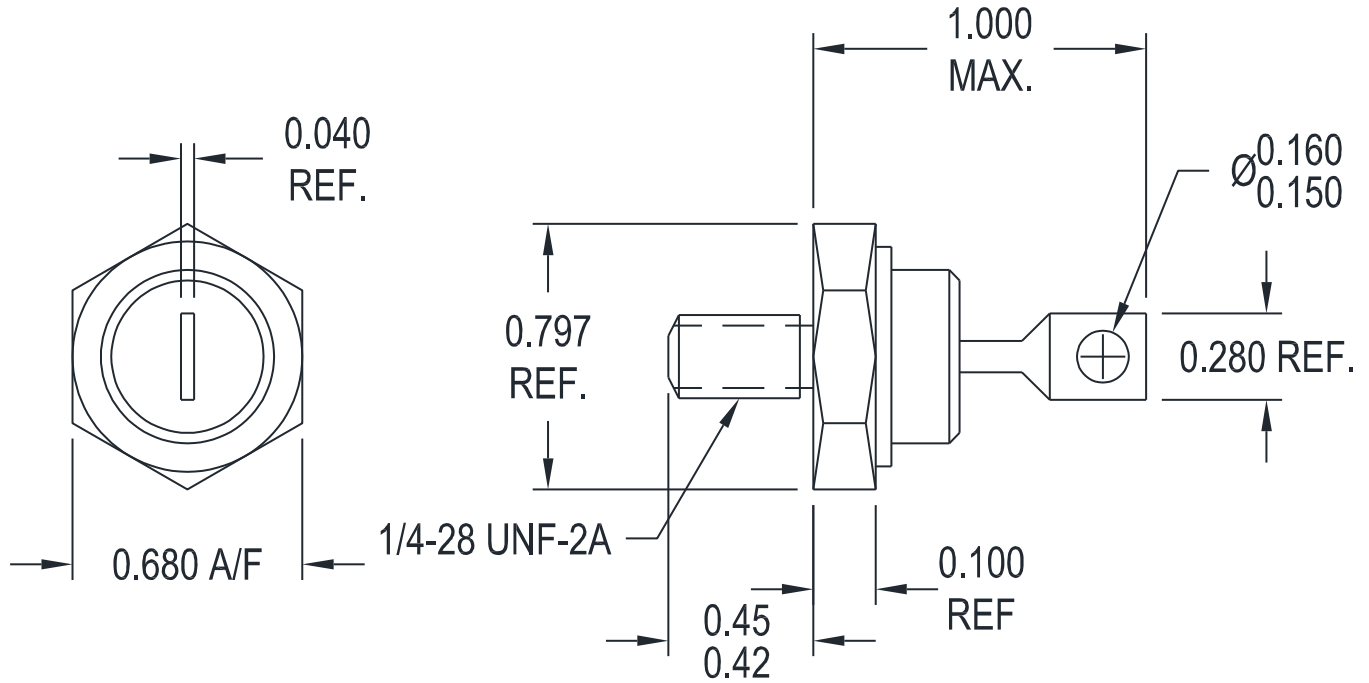
THERMAL AND MECHANICAL SPECIFICATIONS

Parameter	Symbol	Value	Units	Conditions
Max. thermal resistance junction to case	Θ_{J-C}	1.0	$^{\circ}C/W$	
Contact thermal resistance	Θ_{C-H}	0.3	$^{\circ}C/W$	
Operating junction temperature	T_J	-65 to 180	$^{\circ}C$	
Storage temperature	T_{STG}	-65 to 100	$^{\circ}C$	
Mounting torque		3.9 Min 5.8 Max	N-m	Non-lubricated threads
Approximate weight	W	30	gm	

Parameter	Symbol	10	20	40	60	80	100	120	140	160
Max. repetitive peak reverse voltage	V_{RRM}	100	200	400	600	800	1000	1200	1400	1600
Max. non-repetitive peak reverse voltage	V_{RSM}	150	300	500	700	900	1100	1300	1500	1700
Max. RMS reverse voltage	$V_{R(RMS)}$	70	140	280	420	560	700	840	980	1120
Max. DC blocking voltage	V_R	100	200	400	600	800	1000	1200	1400	1600
Recommended RMS working voltage		40	80	160	240	320	400	480	560	640
Max. peak reverse leakage current @ V_{RRM}, T_C (Ma)	I_{RM}	15	15	15	9	9	9	9	5	5



CASE OUTLINE AND DIMENSIONS



40HF

40HFR

All dimensions in inches

40	HF	R	160
1	2	3	4

- 1 – 40 = Series Device
- 2 – HF = Standard Diode
- 3 – None = Normal Polarity
R = Reverse Polarity
- 4 – Voltage Code x 10 = V_{RRM}