



# 70HF SERIES

70A, 100 to 1600V  
Stud Mounted Diodes



## Features

- High Current Carrying Capability
- High Voltage Rating
- High Surge Current Capability
- Standard and Reverse Polarity Available

## Specifications

Part Number	$V_{RRM}$ V	$V_{RSM}$ V	$V_{R(RMS)}$ V	$V_R$ V	$V_{RMS}$ V	$I_{RM}$ mA	$I_{F(AV)}$ A	$V_{FM}$ V
70HF•40	400	500	280	400	160	15	70	1.35
70HF•60	600	700	420	600	240	9	70	1.35
70HF•80	800	900	560	800	320	9	70	1.35
70HF•100	1000	1100	700	1000	400	9	70	1.35
70HF•120	1200	1300	840	1200	480	9	70	1.35
70HF•140	1400	1500	980	1400	560	5	70	1.35
70HF•160	1600	1700	1120	1600	640	5	70	1.35

Part Number	$I_{FSM}$ A	$I_{FRM}$ A	$I^2t$ A <sup>2</sup> sec	$\theta_{J-C}$ °C/W	$\theta_{C-H}$ °C/W	T N-m	W g
70HF•40	1200	350	7100	0.45	0.25	3.9 to 5.8	40
70HF•60	1200	350	7100	0.45	0.25	3.9 to 5.8	40
70HF•80	1200	350	7100	0.45	0.25	3.9 to 5.8	40
70HF•100	1200	350	7100	0.45	0.25	3.9 to 5.8	40
70HF•120	1200	350	7100	0.45	0.25	3.9 to 5.8	40
70HF•140	1200	350	7100	0.45	0.25	3.9 to 5.8	40
70HF•160	1200	350	7100	0.45	0.25	3.9 to 5.8	40

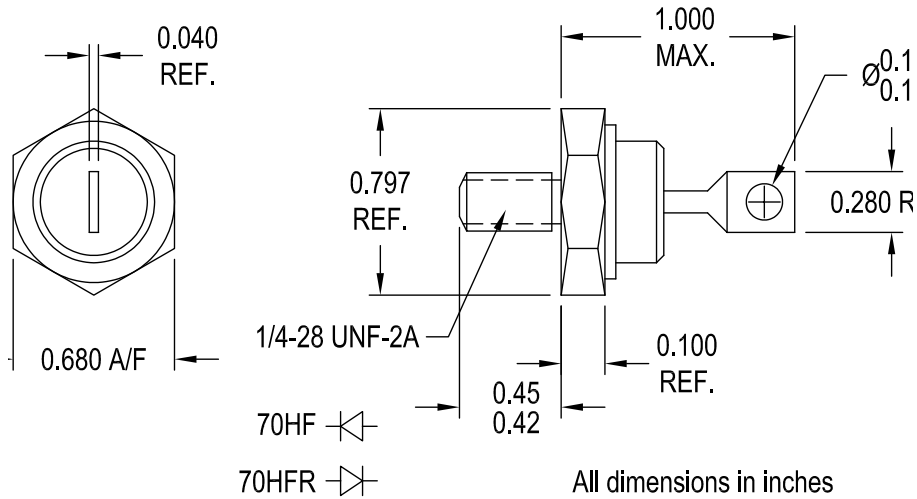
Temperature °C	
Operating Junction Temperature	-65 to 180
Storage Temperature	-65 to 180



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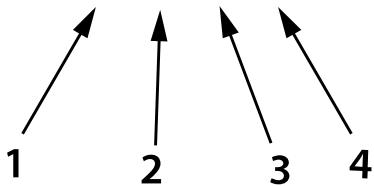
## Drawings and Curves

### Outline and Dimension



### Part Decoder

EXAMPLE: **70HFR160**



- 1      70 – Series Device
- 2      HF – Standard Diode
- 3      None – Normal Polarity  
R – Reverse Polarity
- 4      Voltage Code x 10 =  $V_{RRM}$



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## Specification Definitions

Specifications		Conditions
<b>V<sub>RRM</sub></b>	Maximum Repetitive Peak Reverse Voltage	-
<b>V<sub>RSM</sub></b>	Maximum Non- Repetitive Peak Reverse Voltage	-
<b>V<sub>R(RMS)</sub></b>	Maximum RMS Reverse Voltage	-
<b>V<sub>R</sub></b>	Maximum DC Blocking Voltage	-
<b>V<sub>RMS</sub></b>	Recommended RMS Working Voltage	-
<b>I<sub>RM</sub></b>	Maximum Peak Reverse Leakage Current	-
<b>I<sub>F(AV)</sub></b>	Maximum Average Forward Current	TC = 140°C
<b>V<sub>FM</sub></b>	Maximum Peak Forward Voltage Drop	Rated I <sub>F(peak)</sub>
<b>I<sub>FSM</sub></b>	Maximum Peak One Cycle Non-Repetitive Surge Current	10ms, Single Half Sine
<b>I<sup>2</sup>t</b>	Maximum I <sup>2</sup> t Rating (Non-Repetitive)	10ms
<b>θ<sub>J-C</sub></b>	Maximum Thermal Resistance	Junction to Case
<b>θ<sub>C-H</sub></b>	Contact Thermal Resistance	-
<b>T</b>	Mounting Torque	Non-Lubricated Threads
<b>W</b>	Approximate Weight	-

Note: Specifications subject to change without notice. Photo is representation only.

