

FEATURES

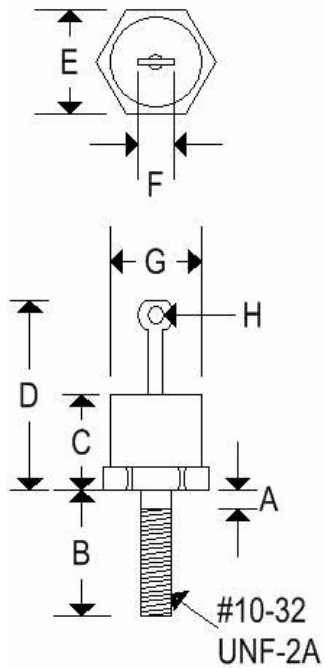
- Available as "HR" (high reliability) screened per MIL-PRF-19500, JANTX level. Add "HR" suffix to base part number.
- Available as non-RoHS (Sn/Pb plating), standard, and as RoHS by adding "-PBF" suffix.

ELECTRICAL CHARACTERISTICS ($T_A = 25^\circ\text{C}$ unless otherwise specified)

Characteristics	Symbol	Value	Test Conditions
Working peak reverse voltage	V_{RWM}	35V	
Repetitive peak reverse voltage	V_{RRM}	35V	
Average forward current	$I_{F(AV)}$	30A	$T_C = 140^\circ\text{C}$, square wave, $R_{\theta JC} = 1.6^\circ\text{C/W}$
Maximum surge current	I_{FSM}	600A	8.3ms, half-sine, $T_J = 175^\circ\text{C}$
Maximum repetitive peak reverse current	$I_{R(OV)}$	2A	$f = 1\text{KHz}$, 25°C , 1 μsec square wave
Maximum peak forward voltage	V_{FM}	0.57V	$I_{FM} = 30\text{A}$, $T_J = 175^\circ\text{C}^*$
Maximum peak forward voltage	V_{FM}	0.68V	$I_{FM} = 30\text{A}$, $T_J = 25^\circ\text{C}^*$
Maximum peak reverse current	I_{RM}	25mA	V_{RRM} , $T_J = 125^\circ\text{C}^*$
Maximum peak reverse current	I_{RM}	1.5mA	V_{RRM} , $T_J = 25^\circ\text{C}$
Typical junction capacitance	C_J	1350pF	$V_R = 5.0\text{V}$, $T_J = 25^\circ\text{C}$
Storage temperature range	T_{stg}		-55° to 175°C
Operating junction temperature range	T_J		-55° to 175°C
Maximum thermal resistance	$R_{\theta JC}$		1.6°C/W junction to case
Typical thermal resistance (greased)	$R_{\theta CS}$		0.5°C/W case to sink

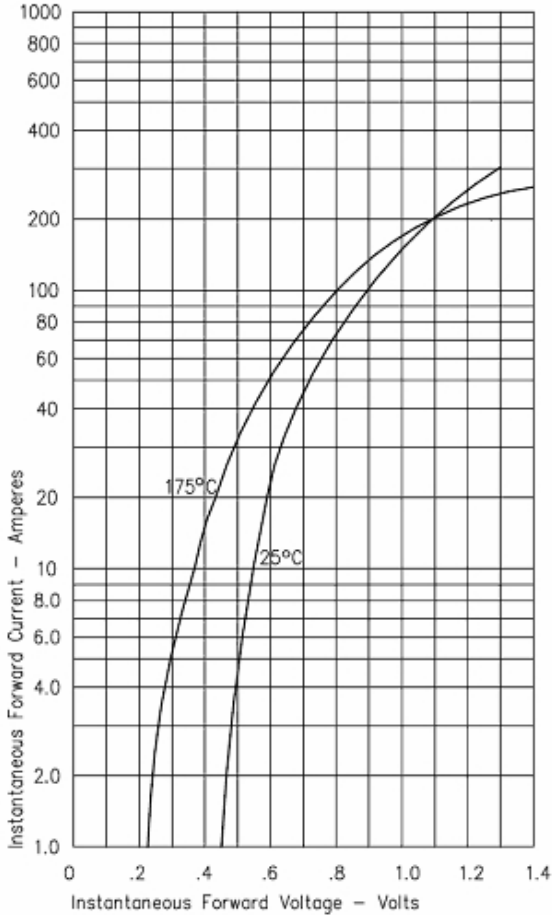
MECHANICAL CHARACTERISTICS

Case	DO-4(R)
Marking	Alpha-numeric
Normal polarity	Cathode is stud
Reverse polarity	Anode is stud (add "R" suffix)

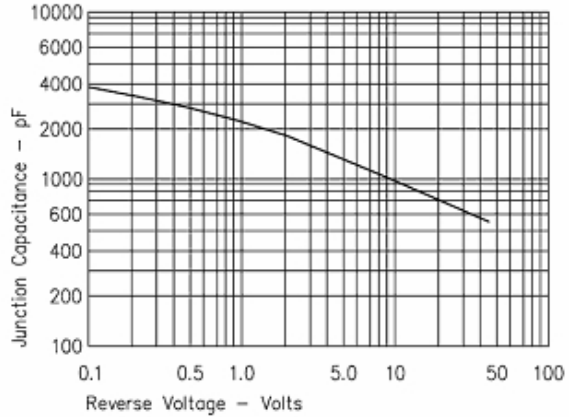


	DO-4(R)			
	Inches		Millimeters	
	Min	Max	Min	Max
A	-	0.078	-	1.981
B	0.422	0.453	10.719	11.506
C	-	0.405	-	10.287
D	-	0.800	-	20.320
E	0.420	0.440	10.668	11.176
F	-	0.250	-	6.350
G	-	0.424	-	10.770
H	0.066	-	1.676	-

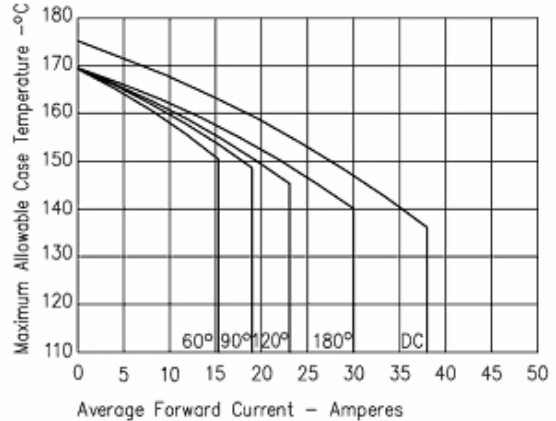
Typical Forward Characteristics



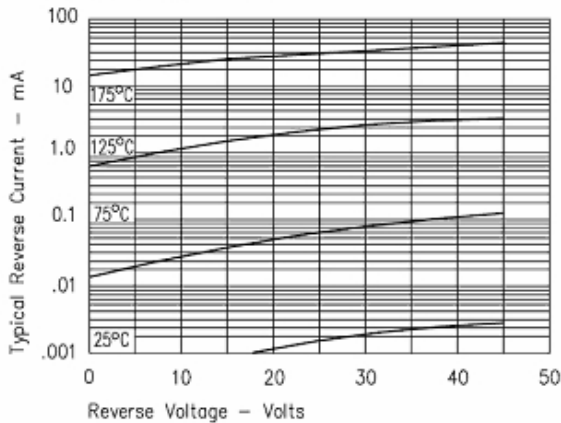
Typical Junction Capacitance



Forward Current Derating



Typical Reverse Characteristics



Maximum Forward Power Dissipation

