

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.

MAXIMUM RATINGS

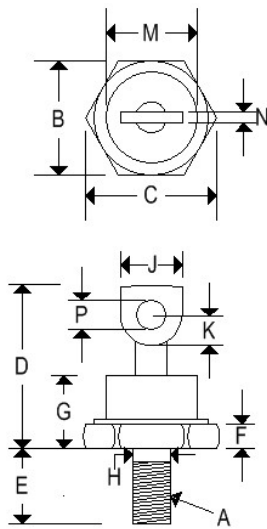
Parameter	Symbol	Value
Storage temperature range	T _{STG}	-65 to +200°C
Operating junction temperature range	T _J	-65 to +200°C
Maximum thermal resistance	R _{θJC}	1.25°C/W junction to case
Typical thermal resistance	R _{θJC}	1.1°C/W junction to case
Maximum mounting torque		25-30 inch pounds maximum
Weight		0.5 ounces (14 grams) typical

ELECTRICAL CHARACTERISTICS (T_A = 25°C unless otherwise specified)

Parameter	Symbol	1N								Test Conditions
		3208	3209	3210	3211	3212	3213	3214	5332	
Peak reverse voltage	V _R	50V	100V	200V	300V	400V	500V	600V	1200V	
Average forward current	I _{F(AV)}	40 A								T _C = 146°C, halfsine wave, R _{θJC} = 1.25°C/W
Maximum surge current	I _{FSM}	800 A								8.3ms, half sine T _J = 200°C
Maximum I ² t for fusing	I ² t	2600 A ² s								
Maximum peak forward voltage	V _{FM}	1.19 V								I _{FM} = 90A; T _J = 25°C*
Maximum peak reverse current	I _{RM}	10 μA								V _{RRM} , T _J = 25°C
Maximum peak reverse current	I _{RM}	2 mA								V _{RRM} , T _J = 150°C
Maximum recommended operating frequency		10kHz								

MECHANICAL CHARACTERISTICS

Case	DO-5(R)
Marking	Alpha numeric
Normal polarity	Cathode is stud
Reverse polarity	Anode is stud (add "R" suffix)



	DO-5(R)			
	Inches		Millimeters	
	Min	Max	Min	Max
A	¼-28 UNF2A threads			
B	0.669	0.688	16.990	17.480
C	-	0.794	-	20.160
D	-	1.000	-	25.400
E	0.422	0.453	10.720	11.510
F	0.115	0.200	2.920	5.080
G	-	0.450	-	11.430
H	0.220	0.249	5.580	6.320
J	0.250	0.375	6.350	9.530
K	0.156	-	3.960	-
M	-	0.667	-	16.940
N	0.030	0.080	0.760	2.030
P	0.140	0.175	3.560	4.450

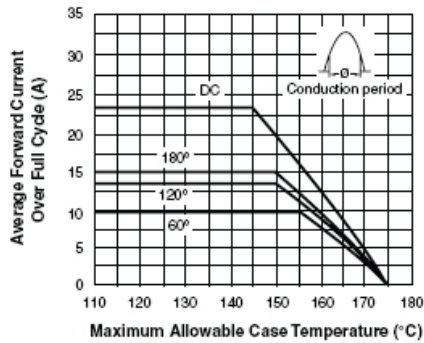


Fig. 1 - Average Forward Current vs. Maximum Allowable Case Temperature

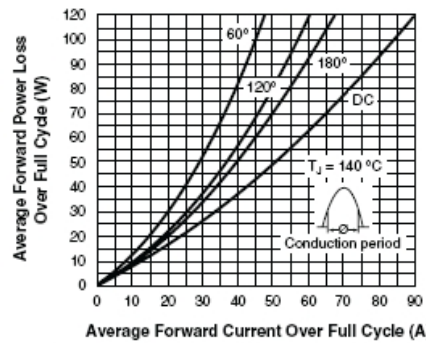


Fig. 3 - Maximum Low Level Forward Power Loss vs. Average Forward Current

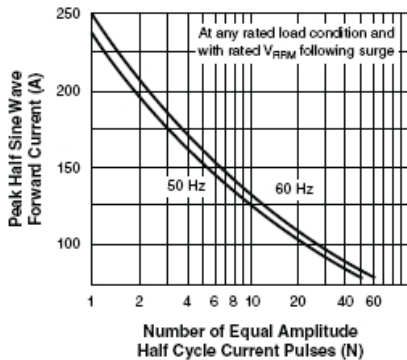


Fig. 2 - Maximum Non-Repetitive Surge Current vs. Number of Current Pulses

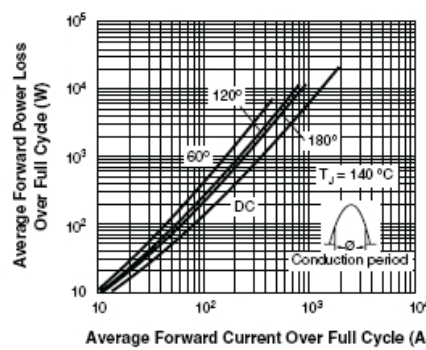


Fig. 4 - Maximum High Level Forward Power Loss vs. Average Forward Current

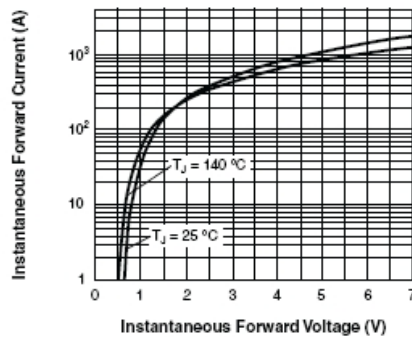


Fig. 5 - Maximum Forward Voltage vs. Forward Current