

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 AND ELECTRICAL CHARACTERISTICS (T_A = 25°C unless otherwise noted)

Characteristics	Symbol	FR							Units
		101	102	103	104	105	106	107	
Maximum Forward Rectified Current (Figure 2)	I _O	1.0							A
Maximum Forward Surge Current	I _{FSM}	30							A
Maximum Reverse Current V _R = V _{RRM} , T _J = 25°C V _R = V _{RRM} , T _J = 125°C	I _R	5.0 150							μA
Diode Junction Capacitance f = 1MHz and applied 4V DC Reverse Voltage	C _J	15							pF
Storage Temperature Range	T _{STG}	-65 to +175							°C
Operating Temperature Range	T _J	-55 to +125							°C
Repetitive Peak Reverse Voltage	V _{RRM}	50	100	200	400	600	800	1000	V
RMS Voltage	V _{RMS}	35	70	140	280	420	560	700	V
Continuous Reverse Voltage	V _R	50	100	200	400	600	800	1000	V
Maximum Forward Voltage @ I _F = 1.0A	V _F	1.3	1.3	1.3	1.3	1.3	1.3	1.3	V
Maximum Reverse Recovery Time ⁽¹⁾	t _{rr}	150	150	150	150	250	500	500	ns

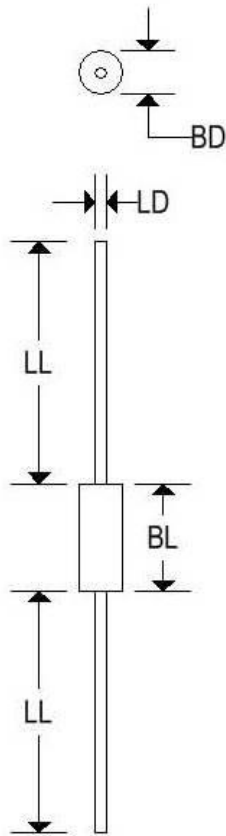
Note 1: Reverse recovery time test condition, I_F = 0.5A, I_R = 1.0A, I_{RR} = 0.25A

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FAST RECOVERY RECTIFIERS

MECHANICAL CHARACTERISTICS

Case:	DO-41
Marking:	Alpha-numeric
Polarity:	Cathode band



	DO-41			
	Inches		Millimeters	
	Min	Max	Min	Max
BD	-	0.107	-	2.720
BL	-	0.205	-	5.207
LD	0.028	0.034	0.711	0.864
LL	1.000	-	25.400	-

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FAST RECOVERY RECTIFIERS

FIG.1-TYPICAL FORWARD CHARACTERISTICS

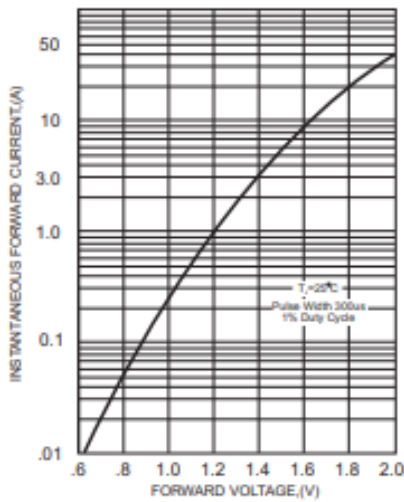


FIG.2-TYPICAL FORWARD CURRENT DERATING CURVE

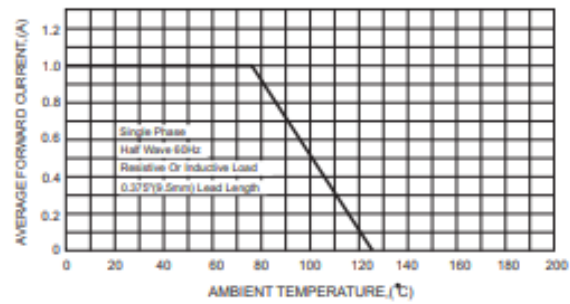
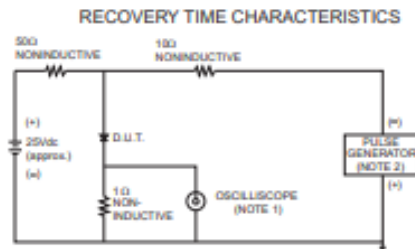


FIG.3- TEST CIRCUIT DIAGRAM AND REVERSE RECOVERY TIME CHARACTERISTICS



NOTES: 1. Rise Time= 7ns max., Input Impedance= 1 megohm, 22pF.
2. Rise Time= 13ns max., Source Impedance= 50 ohms.

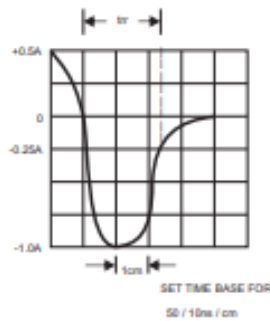


FIG.4-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

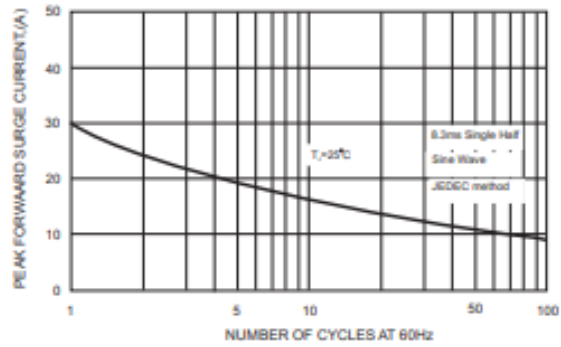


FIG.5-TYPICAL JUNCTION CAPACITANCE

