

HER151G-HER158G

HIGH EFFICIENCY RECTIFIERS

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	HER								Units
		151G	152G	153G	154G	155G	156G	157G	158G	
Maximum Forward Rectified Current T _A = 50°C	I _O	1.5								A
Maximum Forward Surge Current	I _{FSM}	50								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
Typical Junction Capacitance ⁽¹⁾ f = 1MHz and applied 4V DC Reverse Voltage	C _J	30								pF
Storage Temperature Range	T _{STG}	-65 to +175								°C
Operating Temperature Range	T _J	-55 to +150								°C
Repetitive Peak Reverse Voltage	V _{RRM}	50	100	200	300	400	600	800	1000	V
RMS Voltage	V _{RMS}	35	70	140	210	280	420	560	700	V
Continuous Reverse Voltage	V _R	50	100	200	300	400	600	800	1000	V
Maximum Forward Voltage @ I _F = 1.5A	V _F	1.0	1.0	1.0	1.3	1.3	1.85	1.85	1.85	V
Maximum Reverse Recovery Time ⁽²⁾	t _{rr}	50	50	50	50	50	75	75	75	ns

Note 1: Thermal resistance from junction to ambient and from junction to lead length 0.375" PCB mounted.

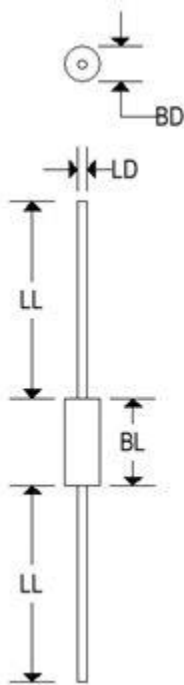
Note 2: Reverse recovery time test condition, I_F = 0.5A, I_R = 1.0A, I_{RR} = 0.25A

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MECHANICAL CHARACTERISTICS

Case:	DO-15
Marking:	Alpha-numeric
Polarity:	Cathode band



	DO-15			
	Inches		Millimeters	
	Min	Max	Min	Max
BD	0.100	0.140	2.540	3.556
BL	0.200	0.300	5.080	7.620
LD	0.028	0.032	0.711	0.813
LL	1.000	-	25.400	-

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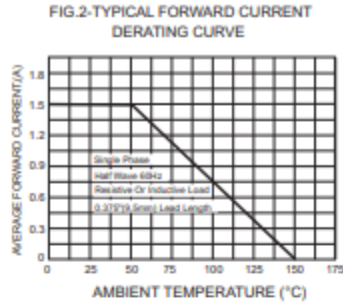
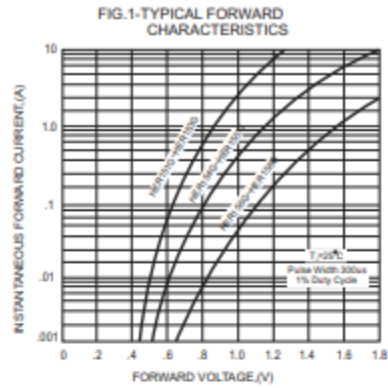
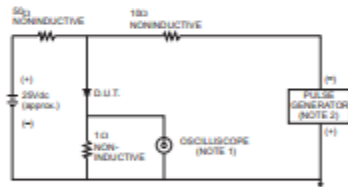


FIG.3- TEST CIRCUIT DIAGRAM AND REVERSE RECOVERY TIME CHARACTERISTICS



NOTES: 1. Rise Time* 7ns max., Input Impedance* 1 megohm, 22pF.
2. Rise Time* 10ns max., Source Impedance* 50 ohms.

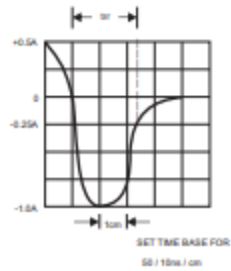


FIG.4-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

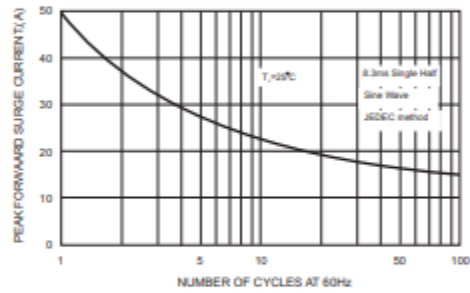


FIG.5-TYPICAL JUNCTION CAPACITANCE

