

High-reliability discrete products and engineering services since 1977

HER101G-HER108G

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)

	C				н	ER				
Characteristics	Symbol	101G	102G	103G	104G	105G	106G	107G	108G	Units
Maximum Forward Rectified Current	lo				1	.0				А
Maximum Forward Surge Current	I _{FSM}				3	0				А
Maximum Reverse Current										
V _R = V _{RRM} , T _J = 25°C	I _R				5	.0				μΑ
$V_R = V_{RRM}, T_J = 125^{\circ}C$					1!	50				
Typical Thermal Resistance ⁽¹⁾ Junction to Ambient Junction to Lead	Rəja Rəjl				-	0 5				°C/W
Typical Junction Capacitance f = 1MHz and applied 4V DC Reverse Voltage	CJ				2	0				pF
Storage Temperature Range	T _{STG}				-65 to	+175				°C
Operating Temperature Range	Tر				-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 @ $I_F = 1.0A$	V _F	1.0	1.0	1.0	1.3	1.3	1.85	1.85	1.85	V
Maximum Reverse Recovery Time (1)	t _{rr}	50	50	50	50	50	75	75	75	ns

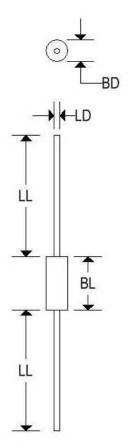
Note 1: Reverse recovery time test condition, I_F = 0.5A, I_R = 1.0A, I_{RR} = 0.25A



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MECHANICAL CHARACTERISTICS

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



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	DO-41							
	Inches		Millimeters					
	Min	Max	Min	Max				
BD		0.107	₩.	2.720				
BL	(5)	0.205		5.207				
LD	0.028	0.034	0.711	0.864				
LL	1.000	18%	25.400					



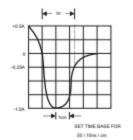
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FIG.1-TYPICAL FORWARD CHARACTERISTICS

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

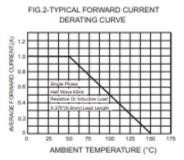


NOTES: 1. Rise Time+ 7ns max., input impedance+ 1 megahm 23pF. 2. Rise Time+ 10ns max., Source impedance+ 50 ohms.



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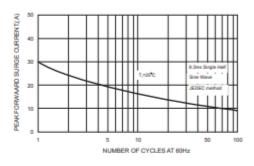
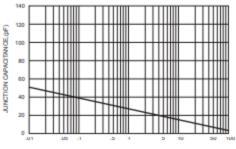


FIG.5-TYPICAL JUNCTION CAPACITANCE



REVERSE VOLTAGE,(V)