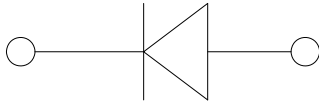
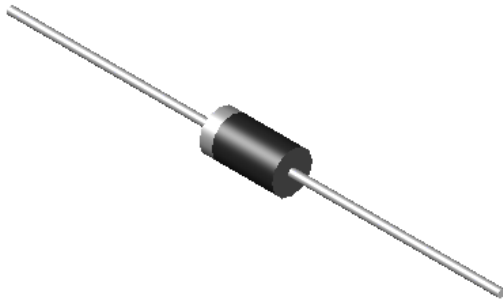




HER501-508



- High efficiency
- High current capability
- High Reliability
- High surge current capability
- Glass passivated chip junction
- Solder dip 275 °C max. 7 s, per JESD 22-B106

- DO-201AD (DO-27)
- Molding compound meets UL 94 V-0 flammability rating, RoHS-compliant
- Tin plated leads, solderable per J-STD-002 and JESD22-B102
- Color band denotes cathode end

Electrical Characteristics (Ta=25 °C) Unless otherwise specified

Parameter	Symbol	Unit	HER501	HER502	HER503	HER504	HER505	HER506	HER507	HER508
Device marking code			G	G	G	G	G	G	G	G
Maximum Repetitive Peak Reverse Voltage	V <sub>RRM</sub>	V	50	100	200	300	400	600	800	1000
Maximum RMS Voltage	V <sub>RMS</sub>	V	35	70	140	210	280	420	560	700
Maximum DC blocking Voltage	V <sub>DC</sub>	V	50	100	200	300	400	600	800	1000
Average Forward Current @60Hz sine wave, Resistance load, Ta=50	I <sub>F(AV)</sub>	A	5.0							
Forward Surge Current (Non-repetitive) @60Hz Half-sine wave, 1 cycle, Tj=25	I <sub>FSM</sub>	A	150							
Forward Surge Current (Non-repetitive) @1ms, square wave, 1 cycle, Tj=25			300							
Current squared time @1ms t8.3 ms Tj=25 Rating of per diode	I <sup>2</sup> t	A <sup>2</sup> s	94							
Typical junction capacitance @Measured at 1MHz and Applied Reverse Voltage of 4.0 V.D.C	C <sub>j</sub>	pF	72			46		52		
Storage Temperature	T <sub>stg</sub>		-55 ~ +150							
Junction Temperature	T <sub>j</sub>		-55 ~ +150							

Electrical Characteristics (Ta=25 °C) Unless otherwise specified

Parameter	Symbol	Unit	IFM=5.0A	Tj=25	Tj=125	IF=0.5A, IR=1.0A, Ir=0.25A
Maximum instantaneous forward voltage drop per diode	V <sub>F</sub>	V	1.0	1.3	1.7	
Maximum DC reverse current at rated DC blocking voltage per diode	I <sub>R</sub>	μA	2.5			
			100			
Maximum reverse recovery time	t <sub>rr</sub>	ns	50			75



‘<9F)\$%; ‘H<F I ‘<9F)\$, ;

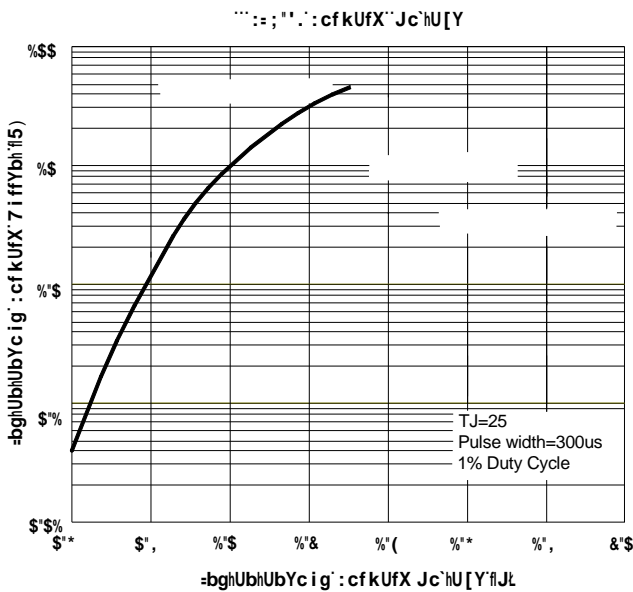
H\Yf aU`7\UfUWhYf]gh]Wg` T<sub>a</sub>=25 Unless otherwise specified

D5F5A9H9F`	GMA6C@`	IB-H`	<9F)\$%;	<9F)\$&;	<9F)\$';	<9F)\$(;	<9F)\$);	<9F)\$*;	<9F)\$+;	<9F)\$,;
Typical Thermal Resistance	R <sub>JA</sub>	/W	20							

CfXYf]b[ `=bZcf a Uh]cb`fI9 IU a d`Yl

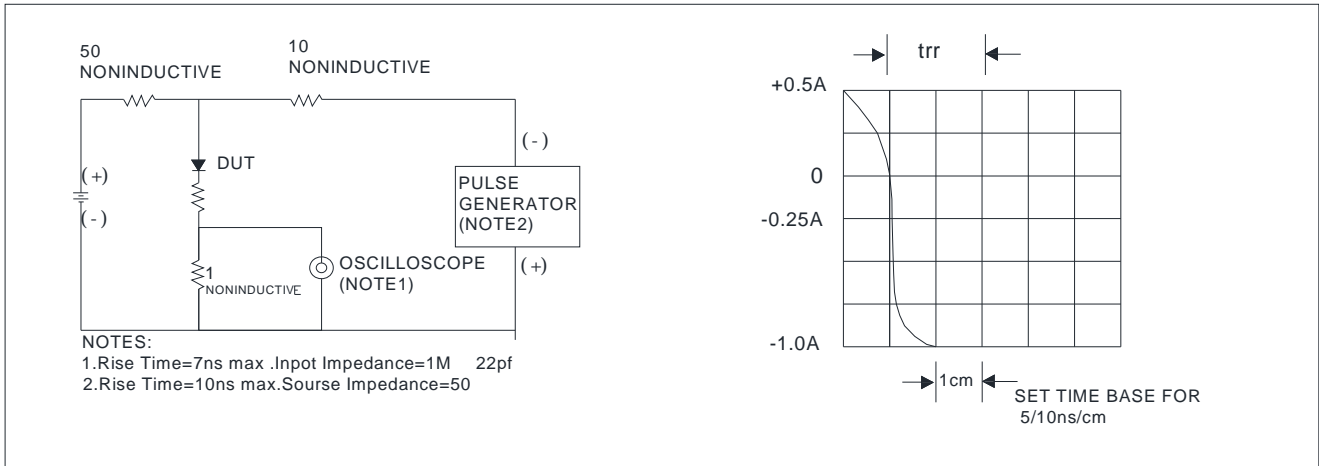
DF9:9F98`D#B`	D57?5;9`7C89	IB-H`K9=; <Hf]l	A=B:A I A` D57?5;9f]dWgl`	=BB9F`6CL` E I 5BH=HMf]dWgl`	C I H9F`75FHCB` E I 5BH=HMf]dWgl`	89@=J9FM`AC89
HER501G~HER508G	D1	Approximate 1.05	1250	1250	12500	Tape
HER501G~HER508G	C1	Approximate 1.05	250	250	12500	Bulk

7\UfUWhYf]gh]Wg`f]Hmd]WU`l

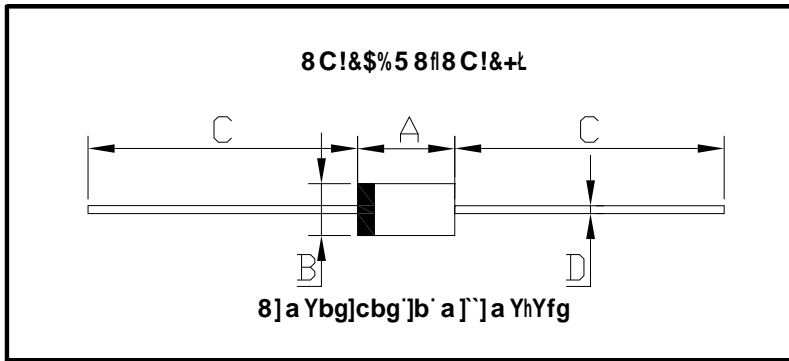




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C i h ` ] b Y ' 8 ] a Y b g ] c b g `



8 C ! & \$ % 5 8 f 8 C ! & + t `		
Dim	Min	Max
A	8.50	9.50
B	5.00	5.60
C	25.4	/
D	1.20	1.30



' <9F)\$% ; 'H<F I ' <9F)\$ , ;

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8]gW`U] a Yf`

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