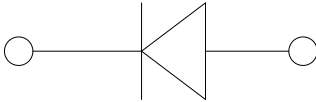
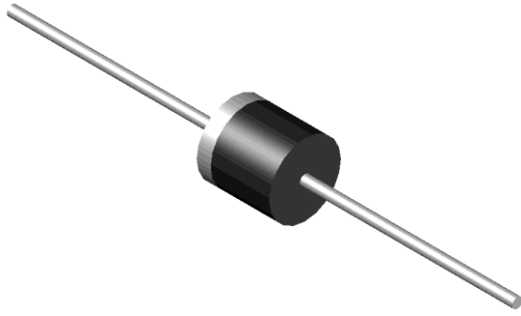




High Efficient Rectifier



Features

- 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

Mechanical Data

- **Package:** R-6
Molding compound meets UL 94 V-0 flammability rating, RoHS-compliant
- **Terminals:** Tin plated leads, solderable per J-STD-002 and JESD22-B102
- **Polarity:** Color band denotes cathode end

■ Maximum Ratings (Ta=25°C Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	HER601G	HER602G	HER603G	HER604G	HER605G	HER606G	HER607G	HER608G
Device marking code			HER601G	HER602G	HER603G	HER604G	HER605G	HER606G	HER607G	HER608G
Repetitive Peak Reverse Voltage	V_{RRM}	V	50	100	200	300	400	600	800	1000
Average Forward Current @60Hz sine wave, Resistance load, Ta=65°C	$I_{F(AV)}$	A	6.0							
Forward Surge Current (Non-repetitive) @60Hz Half-sine wave, 1 cycle, Ta=25°C	I_{FSM}	A	200							
Storage Temperature	T_{stg}	°C	-55 ~ +150							
Junction Temperature	T_j	°C	-55 ~ +150							

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

PARAMETER	SYMBOL	UNIT	TEST CONDITIONS	HER601G	HER602G	HER603G	HER604G	HER605G	HER606G	HER607G	HER608G
Maximum instantaneous forward voltage drop per diode	V_{FM}	V	$I_{FM}=6.0A$	1.0			1.3		1.7		
Maximum DC reverse current at rated DC blocking voltage per diode	I_{RRM1}	μA	Ta=25°C	25							
	I_{RRM2}		Ta=100°C	150							
Reverse Recovery time	t_r	ns	$I_F=0.5A$ $I_R=1A$ $I_{RR}=0.25A$	50				75			
Typical junction capacitance	C_j	pF	Measured at 1MHZ and Applied Reverse Voltage of 4.0 V.D.C.	100				65			

■ Thermal Characteristics (Ta=25°C Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	HER601G	HER602G	HER603G	HER604G	HER605G	HER606G	HER607G	HER608G	
Thermal Resistance(Typical)	$R_{\theta J-A}$	°C/W	15								



HER601G THRU HER608G

Ordering Information (Example)

PREFERRED P/N	PACKAGE CODE	UNIT WEIGHT(g)	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
HER601G~HER608G	D1	Approximate 1.95	500	500	5000	Tape
HER601G~HER608G	C1	Approximate 1.95	100	100	5000	Bulk

Characteristics (Typical)

FIG.1: Io-Ta Curve

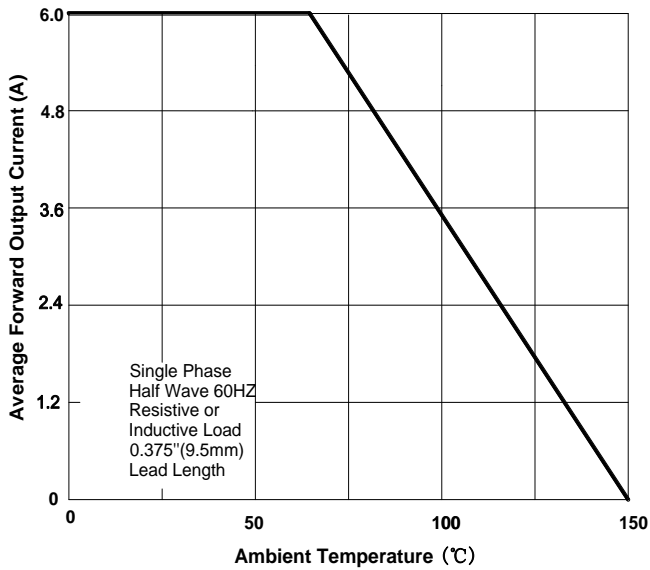


FIG.2: Forward Surge Current Capability

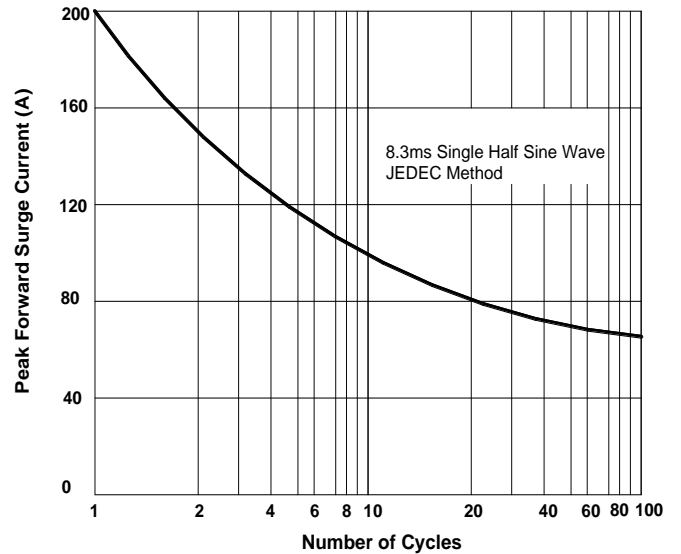


FIG.3: Forward Voltage

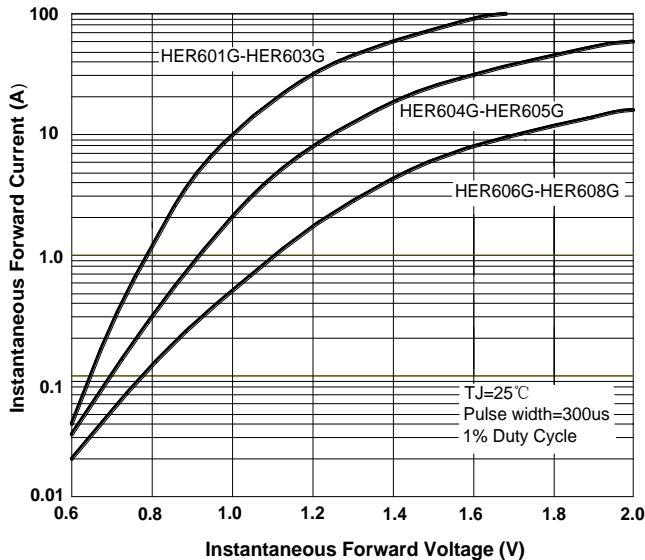
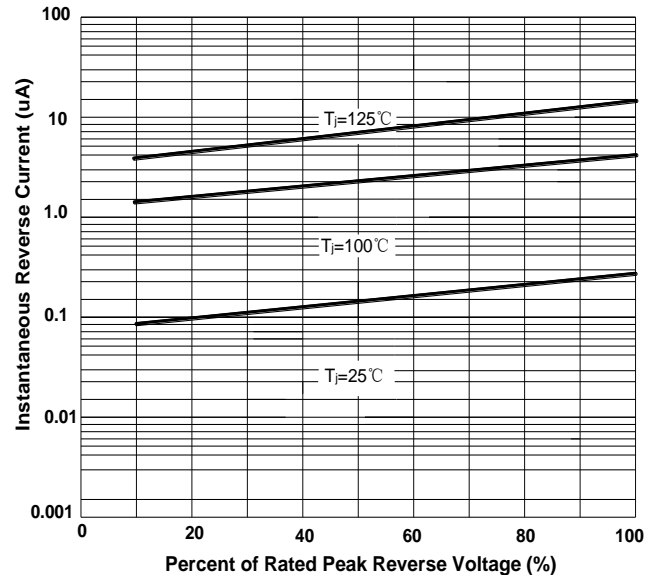


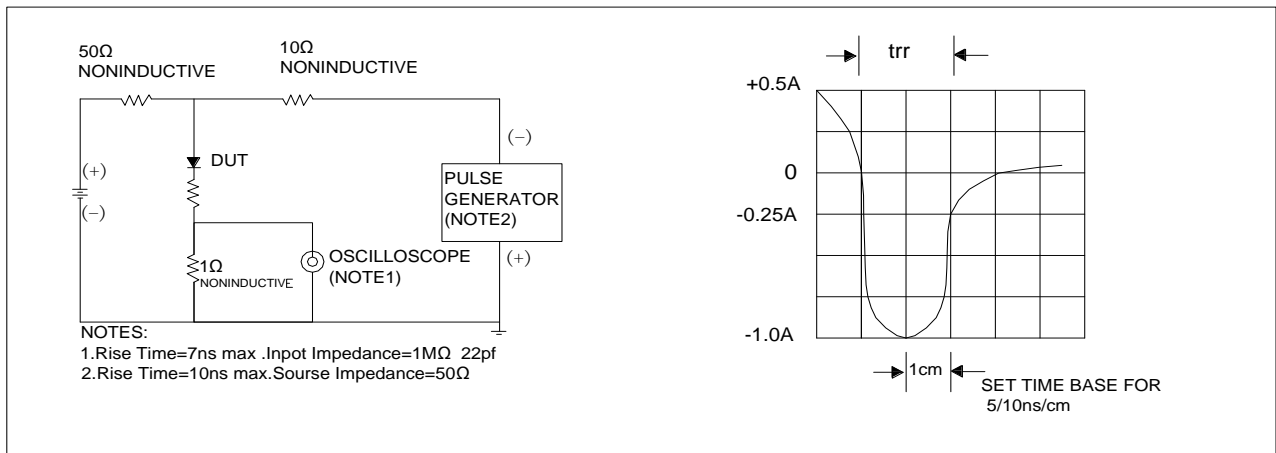
FIG.4: Typical Reverse Characteristics



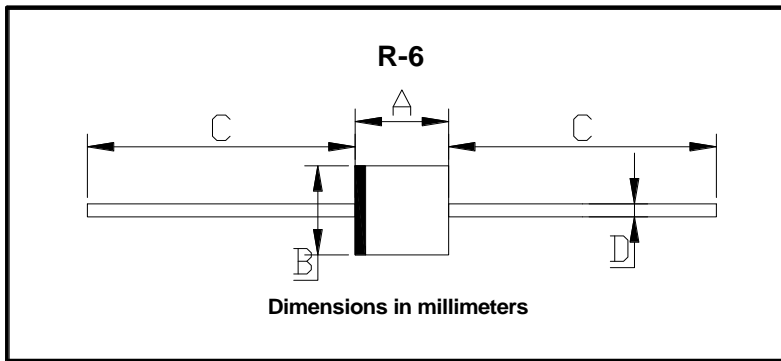


HER601G THRU HER608G

FIG.5: Diagram of circuit and Testing wave form of reverse recovery time



■ Outline Dimensions



R-6		
Dim	Min	Max
A	8.60	9.10
B	8.60	9.10
C	25.4	/
D	1.20	1.32



HER601G THRU HER608G

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