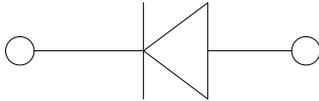


High Efficient Rectifier



Features

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

Mechanical Data

- **Package:** R-1
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 (T_a=25°C Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	1H1	1H2	1H3	1H4	1H5	1H6	1H7	1H8
Device marking code			1H1	1H2	1H3	1H4	1H5	1H6	1H7	1H8
Repetitive Peak Reverse Voltage	VRRM	V	50	100	200	300	400	600	800	1000
Average Forward Current @60Hz sine wave, Resistance load, T _a =40°C	I _O	A	1.0							
Surge(Non-repetitive)Forward Current @60Hz Half-sine wave, 1 cycle, T _a =25°C	IFSM	A	30							
Storage Temperature	T _{stg}	°C	-55 ~+150							
Junction Temperature	T _j	°C	-55~+125							

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

PARAMETER	SYMBOL	UNIT	TEST CONDITIONS	1H1	1H2	1H3	1H4	1H5	1H6	1H7	1H8
Maximum instantaneous forward voltage drop per diode	V _{FM}	V	IFM=1.0A	1.0			1.3		1.7		
Maximum DC reverse current at rated DC blocking voltage per diode	I _{RRM1}	μA	T _a =25°C	2.5							
	I _{RRM2}		T _a =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.	20					15		

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

PARAMETER	SYMBOL	UNIT	1H1	1H2	1H3	1H4	1H5	1H6	1H7	1H8
Thermal Resistance(Typical)	R _{θJ-A}	°C/W	85							



1H1 THRU 1H8

Ordering Information (Example)

PREFERRED P/N	PACKAGE CODE	UNIT WEIGHT(g)	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
1H1~1H8	D1	Approximate 0.19	5000	5000	50000	Tape
1H1~1H8	C1	Approximate 0.19	1000	1000	50000	Bulk

Characteristics (Typical)

FIG.1: I_o - T_a Curve

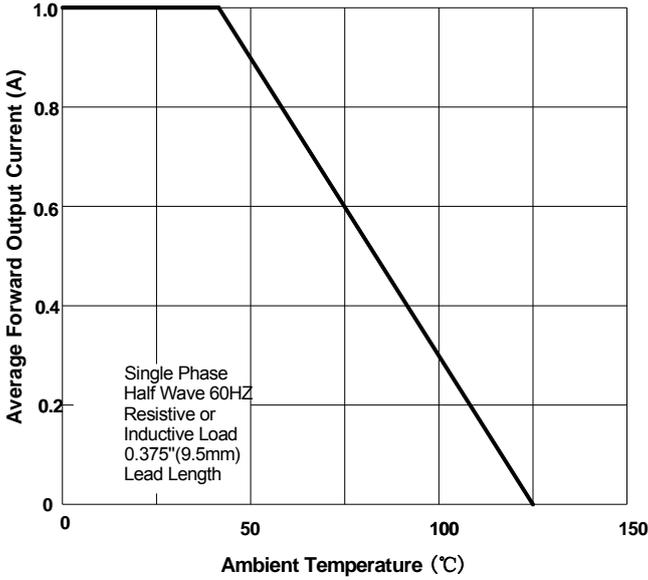


FIG.2: Surge Forward Current Capability

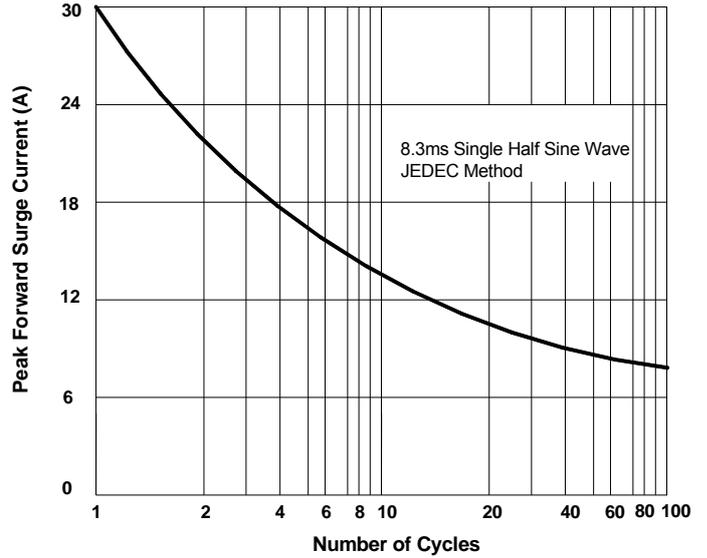


FIG.3: Forward Voltage

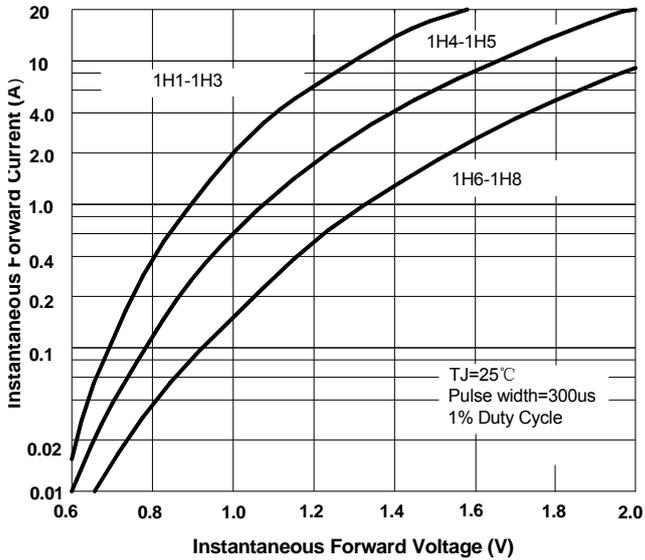


FIG.4: Typical Reverse Characteristics

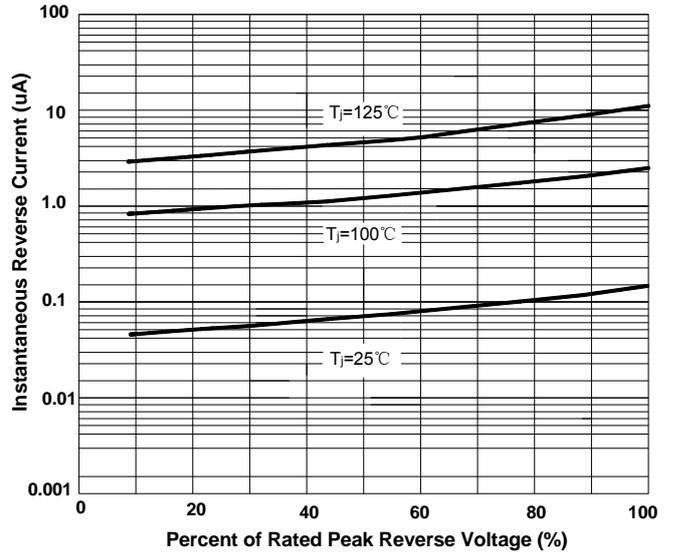
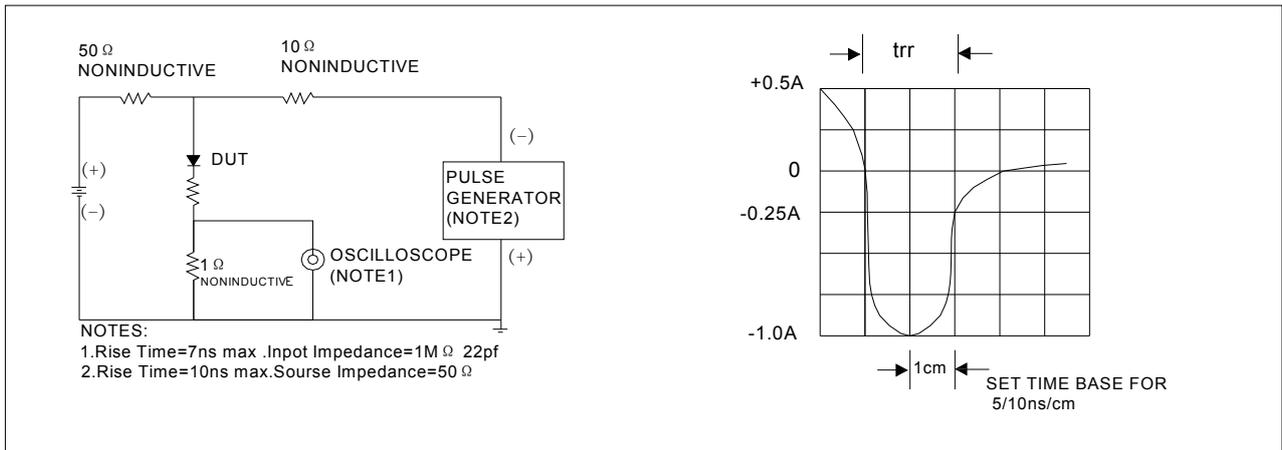
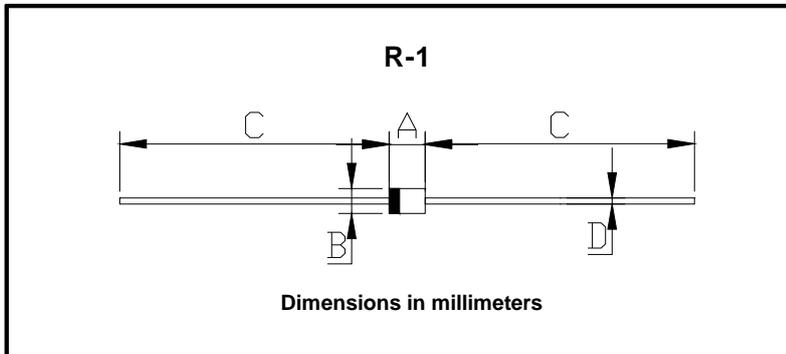


FIG.5: Diagram of circuit and Testing wave form of reverse recovery time



■ Outline Dimensions



R-1		
Dim	Min	Max
A	3.00	3.30
B	2.00	2.70
C	25.4	/
D	0.53	0.64



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