

DEC

1H1 THRU 1H8

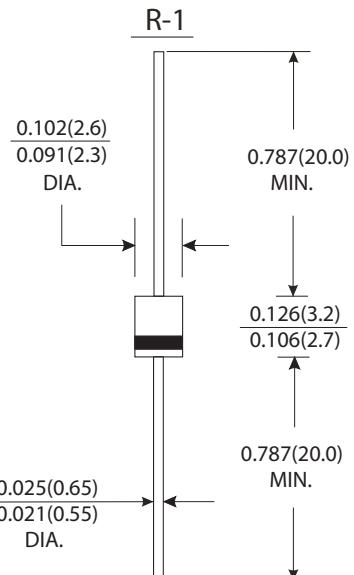
CURRENT 1.0 Ampere
VOLTAGE 50 to 1000 Volts

Features

- Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- Low leakage current
- High current capability
- High reliability
- Low power loss, high efficiency
- High surge current capability
- High speed switching
- Low leakage

Mechanical Data

- Case : R-1 molded plastic body
- Epoxy : UL94V-0 rate flame retardant
- Lead : Plated axial lead solderable per MIL-STD-750, method 2026
- Polarity : Color band denotes cathode end
- Mounting Position : Any
- Weight : 0.007 ounce, 0.19 gram



Dimensions in inches and (millimeters)

Maximum Ratings And Electrical Characteristics

(Ratings at 25 °C ambient temperature unless otherwise specified, Single phase, half wave 60Hz, resistive or inductive load. For capacitive load, derate by 20%)

	Symbols	1H1	1H2	1H3	1H4	1H5	1H6	1H7	1H8	Units				
Maximum recurrent peak reverse voltage	V _{RRM}	50	100	200	300	400	600	800	1000	Volts				
Maximum RMS voltage	V _{RMS}	35	70	140	210	280	420	560	700	Volts				
Maximum DC blocking voltage	V _{DC}	50	100	200	300	400	600	800	1000	Volts				
Maximum average forward rectified current 0.375"(9.5mm) lead length TA=25 °C	I _(AV)	1.0							Amp					
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC method)	I _{FSM}	25.0							Amps					
Maximum instantaneous forward voltage at 1.0A	V _F	1.0		1.3		1.7		Volts						
Maximum DC Reverse Current at rated DC blocking voltage	I _R	5.0							μ A					
Maximum full load reverse current full cycle average. 0.375"(9.5mm) lead length at T _L =55 °C		100												
Maximum reverse recovery time (Note 1)	T _{rr}	50			70			ns						
Typical junction capacitance (Note 2)	C _J	15			12			pF						
Operating Junction and Storage temperature Range	T _J T _{STG}	-65 to +150							°C					

Notes:

(1) Test conditions: I_F=0.5A, I_R=1.0A, I_{rr}=0.25A.

(2) Measured at 1MHz and applied reverse voltage of 4.0 Volts.

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RATINGS AND CHARACTERISTIC CURVES 1H1 THRU 1H8

FIG.1-TEST CIRCUIT DIAGRAM AND REVERSE RECOVERY TIME CHARACTERISTIC

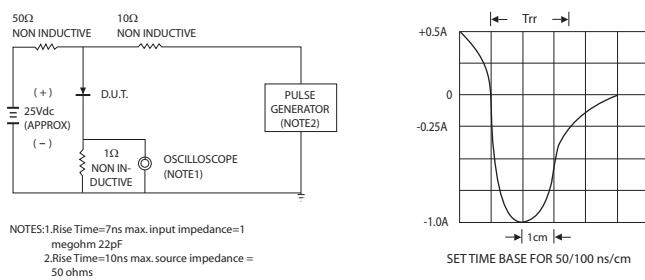


FIG.2-TYPICAL FORWARD CURRENT DERATING CURVE

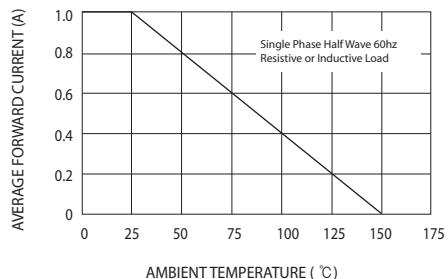


FIG.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

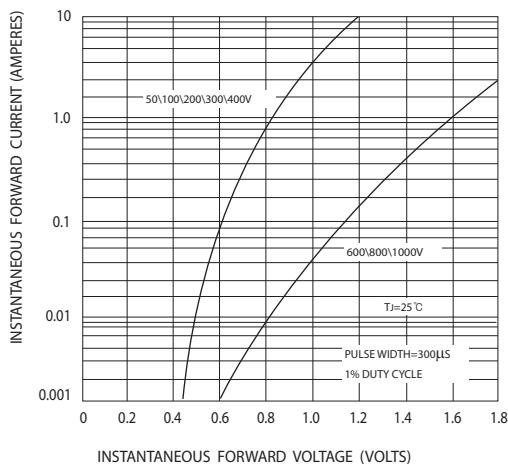


FIG.4-TYPICAL REVERSE CHARACTERISTICS

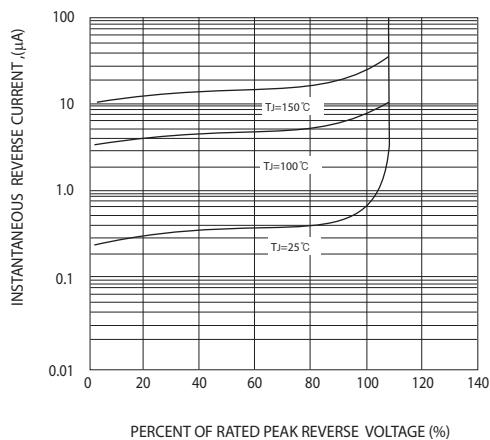


FIG.5-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

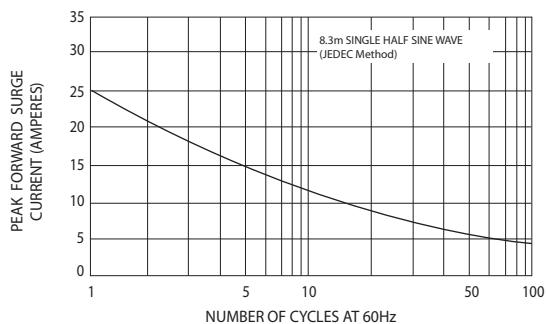


FIG.6-TYPICAL JUNCTION CAPACITANCE

