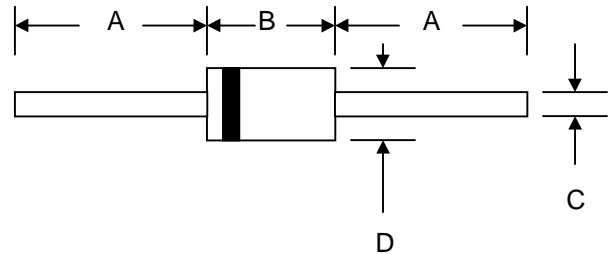


Features

- Diffused Junction
- Low Forward Voltage Drop
- High Current Capability
- High Reliability
- High Surge Current Capability

Mechanical Data

- Case: Molded Plastic
- Terminals: Plated Leads Solderable per MIL-STD-202, Method 208
- Polarity: Cathode Band
- Weight: 0.181grams (approx.)
- Mounting Position: Any
- Marking: Type Number



R-1		
Dim	Min	Max
A	20.0	—
B	2.00	3.50
C	0.53	0.64
D	2.20	2.60
All Dimensions in mm		

Maximum Ratings and Electrical Characteristics @ $T_A=25^\circ\text{C}$ unless otherwise specified

Single Phase, half wave, 60Hz, resistive or inductive load.
 For capacitive load, derate current by 20%.

Characteristic	Symbol	1H1	1H2	1H3	1H4	1H5	1H6	1H7	1H8	Unit	
Peak Repetitive Reverse Voltage	V_{RRM}									V	
Working Peak Reverse Voltage	V_{RWM}	50	100	200	300	400	600	800	1000		
DC Blocking Voltage	V_R										
RMS Reverse Voltage	$V_{R(RMS)}$	35	70	140	210	280	420	560	700	V	
Average Rectified Output Current (Note 1)	I_O	1.0								A	
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	I_{FSM}	30								A	
Forward Voltage @ $I_F = 1.0A$	V_{FM}	1.0			1.3		1.7			V	
Peak Reverse Current @ $T_A = 25^\circ\text{C}$ At Rated DC Blocking Voltage @ $T_A = 100^\circ\text{C}$	I_{RM}	5.0					100				μA
Reverse Recovery Time (Note 2)	t_{rr}	50					75				nS
Typical Junction Capacitance (Note 3)	C_j	20					15				pF
Operating Temperature Range	T_j	-65 to +125								$^\circ\text{C}$	
Storage Temperature Range	T_{STG}	-65 to +150								$^\circ\text{C}$	

*Glass passivated forms are available upon request

- Note: 1. Leads maintained at ambient temperature at a distance of 9.5mm from the case
 2. Measured with $I_F = 0.5A$, $I_R = 1.0A$, $IRR = 0.25A$. See figure 1.
 3. Measured at 1.0 MHz and applied reverse voltage of 4.0V D.C.

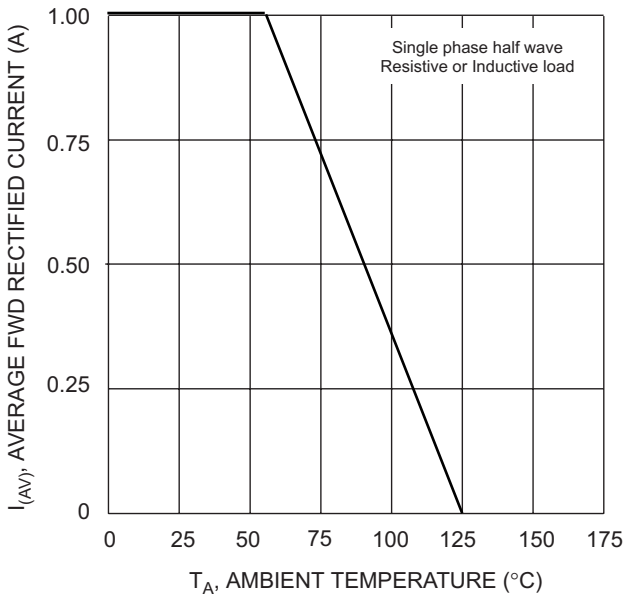


Fig. 1 Forward Current Derating Curve

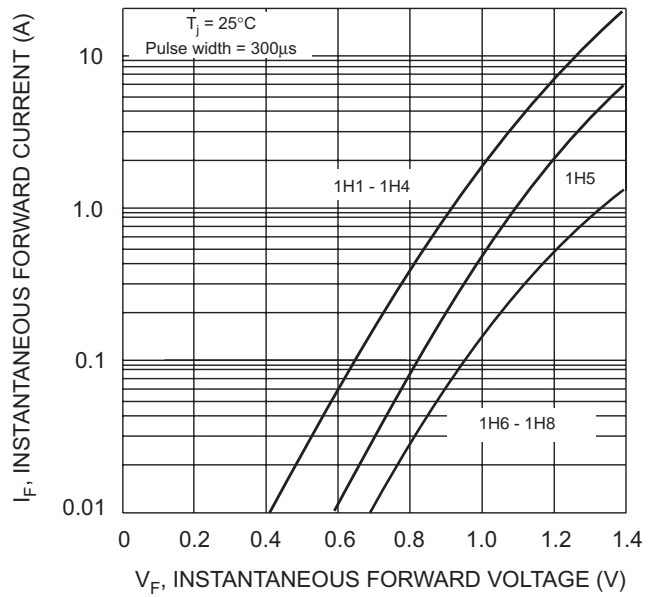


Fig. 2 Typical Forward Characteristics

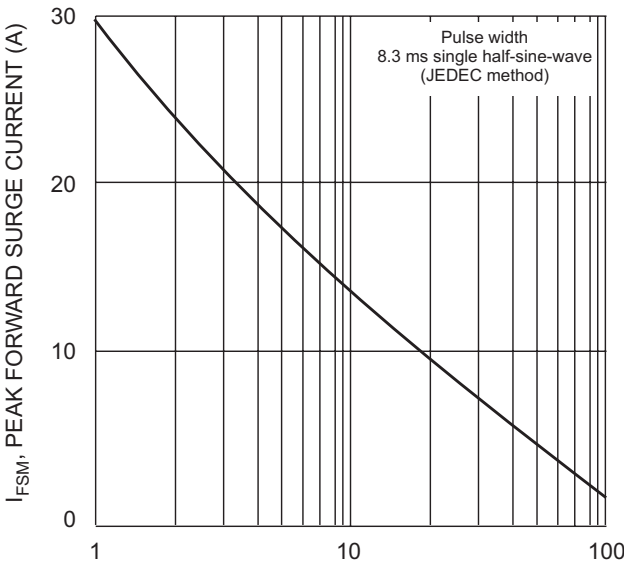


Fig. 3 Peak Forward Surge Current

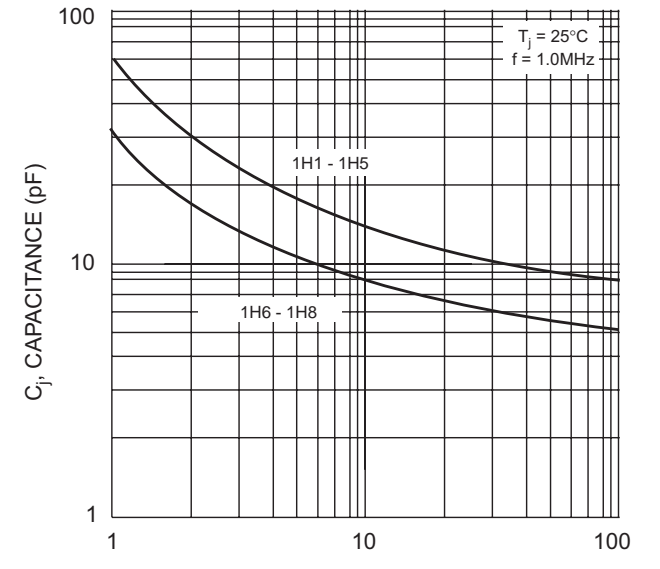
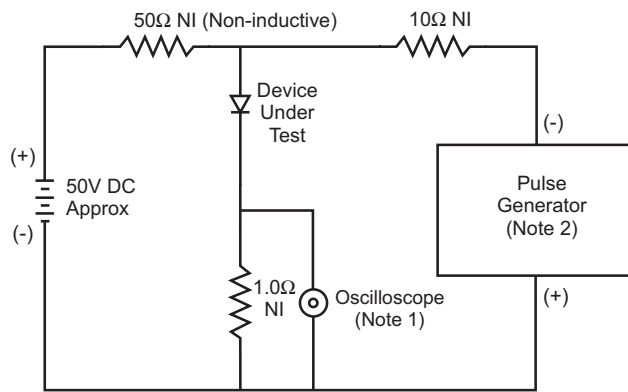
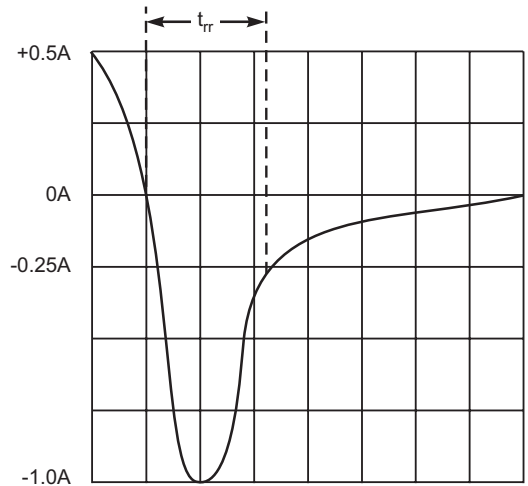


Fig. 4 Typical Junction Capacitance



- Notes:
1. Rise Time = 7.0ns max. Input Impedance = 1.0MΩ, 22pF.
 2. Rise Time = 10ns max. Input Impedance = 50Ω.



Set time base for 5/10ns/cm

Fig. 5 Reverse Recovery Time Characteristic and Test Circuit

ORDERING INFORMATION

Product No.♦	Package Type	Shipping Quantity
1H1-T3	R-1	5000/Tape & Reel
1H1-TB	R-1	5000/Tape & Box
1H1	R-1	1000 Units/Box
1H2-T3	R-1	5000/Tape & Reel
1H2-TB	R-1	5000/Tape & Box
1H2	R-1	1000 Units/Box
1H3-T3	R-1	5000/Tape & Reel
1H3-TB	R-1	5000/Tape & Box
1H3	R-1	1000 Units/Box
1H4-T3	R-1	5000/Tape & Reel
1H4-TB	R-1	5000/Tape & Box
1H4	R-1	1000 Units/Box
1H5-T3	R-1	5000/Tape & Reel
1H5-TB	R-1	5000/Tape & Box
1H5	R-1	1000 Units/Box
1H6-T3	R-1	5000/Tape & Reel
1H6-TB	R-1	5000/Tape & Box
1H6	R-1	1000 Units/Box
1H7-T3	R-1	5000/Tape & Reel
1H7-TB	R-1	5000/Tape & Box
1H7	R-1	1000 Units/Box
1H8-T3	R-1	5000/Tape & Reel
1H8-TB	R-1	5000/Tape & Box
1H8	R-1	1000 Units/Box

Products listed in **bold** are WTE **Preferred** devices.

♦T3 suffix refers to a 13" reel. TB suffix refers to Ammo Pack.

Shipping quantity given is for minimum packing quantity only. For minimum order quantity, please consult the Sales Department.

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