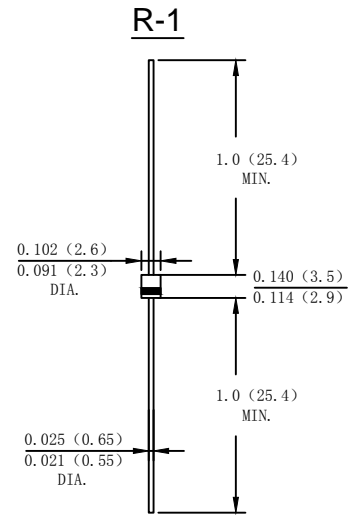


### Features

- Low forward voltage drop
- High current capability
- High reliability.

### Mechanical Data

- Case: Moeded plastic R-1
- Terminals: Axial leads solderable per MIL-STD-202, Method 208
- Polarity: Color band dentes cathode end
- Mounting Position: Any



Dimensions in inches and (millimeters)

### Maximum Ratings and Electrical Characteristics

Rating at 25°C ambient temperature unless otherwise specified

Single phase, half wave, 60Hz, resistive or inductive load

For capacitive load derate current by 20%

Type Number	SYMBOL	1H1G	1H2G	1H3G	1H4G	1H5G	1H6G	1H7G	1H8G	Unit
Maximum Recurrent Peak Reverse Voltage	$V_{RM}$	50	100	200	300	400	600	800	1000	V
Maximum RMS Voltage	$V_{RMS}$	35	70	140	210	280	420	560	700	V
Maximum DC Blocking Voltage	$V_{DC}$	50	100	200	300	400	600	800	1000	V
Average Rectified Output Current (Note 1) @ $T_A = 55^\circ C$	$I_o$	1.0								A
Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	$I_{FSM}$	25								A
Forward Voltage @ $I_F = 1.0A$	$V_{FM}$	1.0			1.3		1.7			V
Peak Reverse Current @ $T_A = 25^\circ C$	$I_R$	5.0								uA
At Rated DC Blocking Voltage @ $T_A = 100^\circ C$		100								
Maximum Reverse Recovery Time (Note3)	$T_{RR}$	50					75			nS
Typical Junction Capacitance (Note 2)	$C_j$	12								pF
Typical Thermal Resistance Junction to Ambient	$R_{\theta JA}$	25								K/W
Operating Temperature Range	$T_j$	-65 to + 150								°C
Storage Temperature Range	$T_{STG}$	-65 to + 150								°C

Note: 1. Leads maintained at ambient temperature at a distance of 9.5mm from the case

2. Measured at 1.0 MHz and Applied reverse Voltage of 4.0V D.C

3. Reverse Recovery Test Conditions:  $I_F = 0.5A$ ,  $I_R = 1.0A$ ,  $IRR = 0.25A$ .

FIG.1-FORWARD CURRENT DERATING CURVE

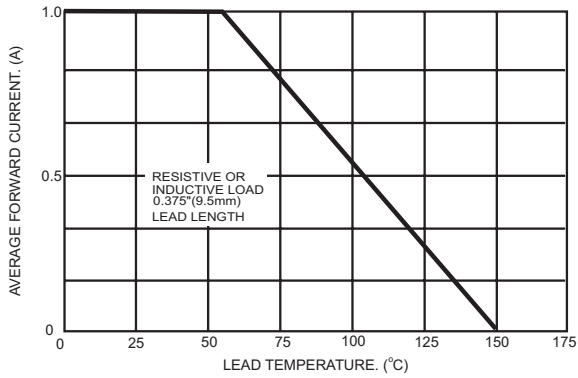


FIG.2- TYPICAL FORWARD CHARACTERISTICS

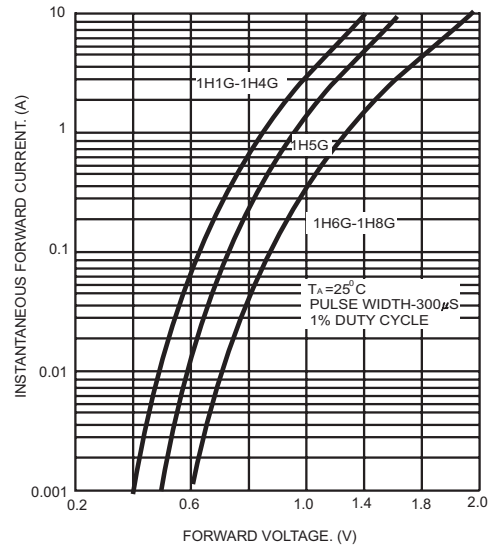


FIG.3- MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

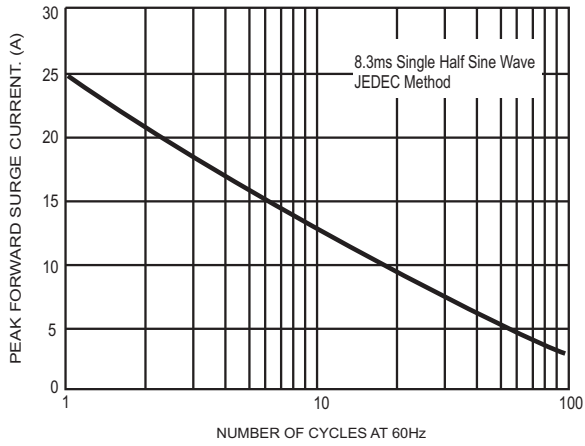


FIG.4- TYPICAL REVERSE CHARACTERISTICS

