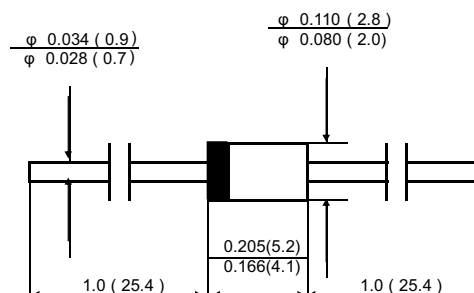


### FEATURES

- Low cost
- Diffused junction
- Low leakage
- Low forward voltage drop
- High current capability
- Plastic material carries U/L recognition 94V-0



DO - 41

Dimensions in millimeters

### MECHANICAL DATA

- Case: JEDEC DO-41 molded plastic
- Terminals: Axial leads
- Solderable per MIL-STD-202, method 208
- Polarity: color band denotes cathode
- Weight: 0.012 ounce, 0.34 grams

### MAXIMUM RATINGS & ELECTRICAL CHARACTERISTICS

( $T_A = 25^\circ\text{C}$  Unless otherwise noted)

Parameter	Symbol	R1200	R1500	R1800	R2000	Unit
Maximum Repetitive Peak Reverse Voltage	$V_{RRM}$	1200	1500	1800	2000	V
Maximum RMS Voltage	$V_{RMS}$	840	1050	1260	1400	V
Maximum DC Blocking Voltage	$V_{DC}$	1200	1500	1800	2000	V
Maximum Average Forward Rectified Current 9.5mm Lead Length @ $T_a = 75^\circ\text{C}$	$I_{F(AV)}$	0.5				A
Peak Forward Surge (Non-repetitive) Current 8.3ms Single Half Sine-Wave Superimposed on Rated Load (JEDEC Method) @ $T_J = 125^\circ\text{C}$	$I_{FSM}$	30.0				A
Maximum Instantaneous Forward Voltage @0.5A	$V_F$	2.0				V
Maximum DC Reverse Current @ $T_A = 25^\circ\text{C}$ At rated DC blocking voltage @ $T_A = 100^\circ\text{C}$	$I_R$	5.0 50.0				$\mu\text{A}$
Typical Thermal Resistance (Note 1)	$R_{\theta JA}$	35				$^\circ\text{C} / \text{W}$
Typical Junction Capacitance (Note 2)	$C_J$	15				pF
Operating Junction Temperature Range	$T_J$	-55 to +150				$^\circ\text{C}$
Storage Temperature Range	$T_{STG}$	-55 to +150				$^\circ\text{C}$

Note: 1. Thermal resistance from junction to ambient.  
 2. Measured at 1.0MHz and applied reverse voltage of 4.0 V DC.

■ **RATING & CHARACTERISTIC CURVES**

FIG.1-MAXIMUM FORWARD DERATING CURVE

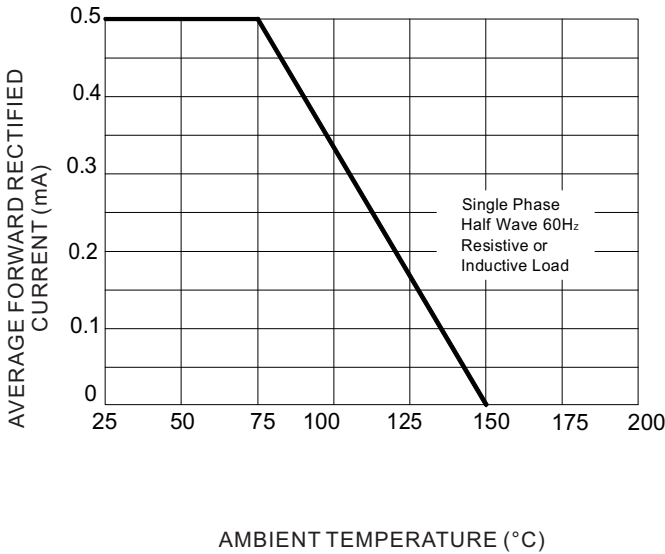


FIG.2-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

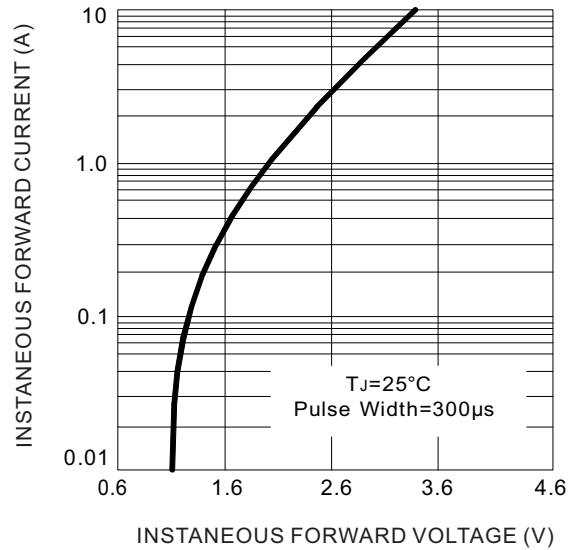


FIG.3-MAXIMUM FORWARD DERATING CURVE

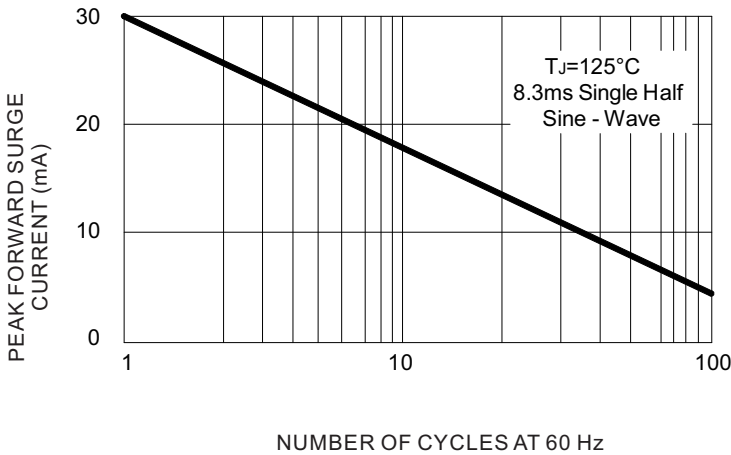


FIG.4-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

