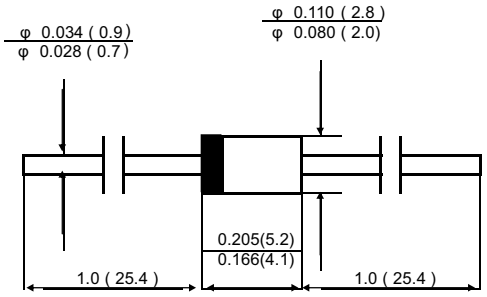
HIGH VOLTAGE RECTIFIER
R1200 Thru R2000
0.5 Amps

RoHS

FEATURES

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



DO - 41
Dimensions in milimeters

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°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 @ Ta = 75°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°C	I_{FSM}	30.0				A
Maximum Instantaneous Forward Voltage @0.5A	V_F	2.0				V
Maximum DC Reverse Current @ TA = 25°C At rated DC blocking voltage @ TA = 100°C	I_R	5.0 50.0				μA
Typical Thermal Resistance (Note 1)	R_{OJA}	35				°C / W
Typical Junction Capacitance (Note 2)	C_J	15				pF
Operating Junction Temperature Range	T_J	-55 to +150				°C
Storage Temperature Range	T_{STG}	-55 to +150				°C

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

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RATING & CHARACTERISTIC CURVES

FIG.1-MAXIMUM FORWARD DERATING CURVE

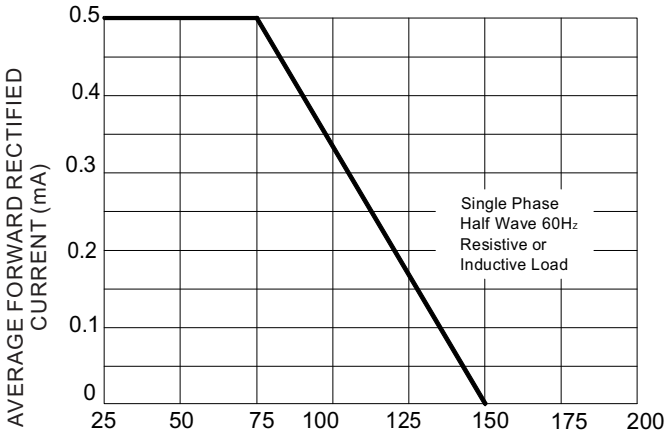


FIG.2-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

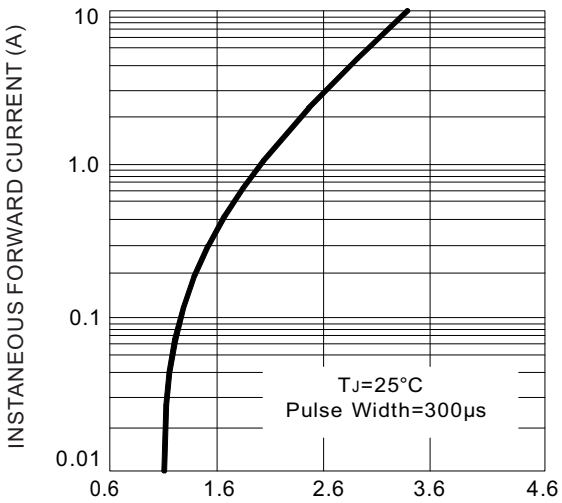


FIG.3-MAXIMUM FORWARD DERATING CURVE

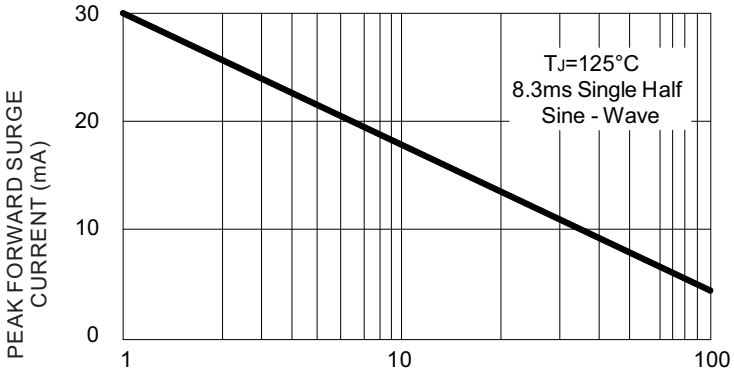
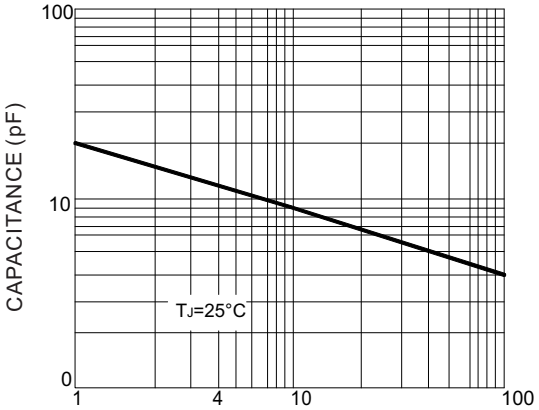


FIG.4-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT



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