

Standard Silicon Rectifiers

Reverse Voltage - 1000V

Forward Current - 30A

FEATURES

- **♦Low cost**
- **♦**Diffused junction
- ♦Low Leakage
- ♦Low forward voltage drop
- ♦High current capability
- Easily cleaned with Freon. Alcohol. Lsopropanol and solvents
- ♦The plastic material carries U/L recognition 94V-O

MECHANICAL DATA

♦Case: R-6

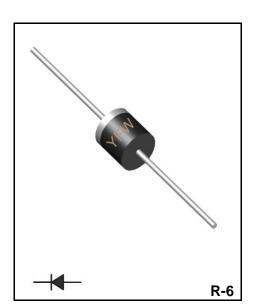
♦Terminals: Axial leads. Solderable per MIL - STD - 202.

Method 208

♦Polarity: Color band denotes cathode

♦Mounting Position : Any

♦Weight: 0.072 ounce, 2.05 grams



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 current by 20%

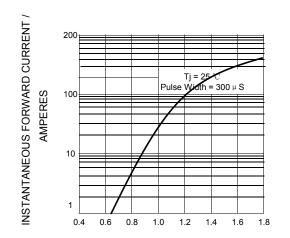
Parameter	Symbols	30A10	Units
Maximum repetitive peak reverse voltage	VRRM	1000	V
Maximum RMS voltage	VRMS	700	V
Maximum DC blocking voltage	VDC	1000	V
Maximum Average Forward Rectified Current 9.5mm Lead Length. T _A = 75 °C	I(AV)	30	Α
Peak Forward Surge Current 8.3ms Single half-sine-wave superimposed on rated Tj = 125 $^{\circ}$ C	İFSM	380	Α
Maximum Forward Voltage at 30A DC	V _F	1.0	V
Maximum Reverse Current TA = 25℃ at Rated DC Blocking Voltage TA = 100℃	lR	5.0 200	μΑ
Typical Junction Capacitance (Note 1)	Cj	150	pF
Typical Thermal Resistance (Note 2)	R_{qJA}	15	°C/ W
Operating Junction Temperature Range	TJ	-55 to +155	C
Storage Temperature Range	Тѕтс	-55 to +155	°C

NOTE

- 1. Measured at 1.0MHZ and applied reverse voltage of 4.0V DC.
- 2. Thermal Resistance Junction to Ambient.

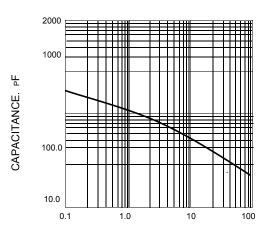


FIG.1-TYPICAL FORWARD CHARACTERISTIC



INSTANTANEOUS FORWARD VOLTAGE/VOLTS

FIG.2-TYPICAL JUNCTION CAPACITANCE



REVERSE VOLTAGE / VOLTS

FIG.3-FORWARD CURRENT DERATING CURVE

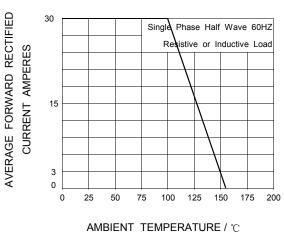
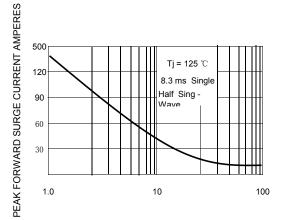


FIG.4-PEAK FORWARD SURGE CURRENT



NUMBER OF CYCLES AT 60Hz

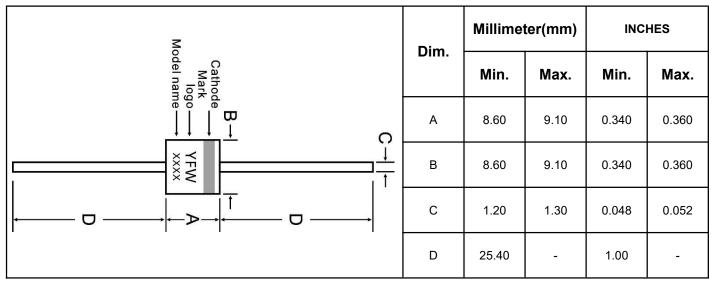


Ordering information

Package	Packing Description	Packing Quantity
R-6	bulk	100PCS/Inner Box 5000PCS/Carton
	ammo pack	500PCS/Box 5000PCS/Carton

Package Dimensions

R-6





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