

Standard Silicon Rectifiers

Reverse Voltage - 1000V

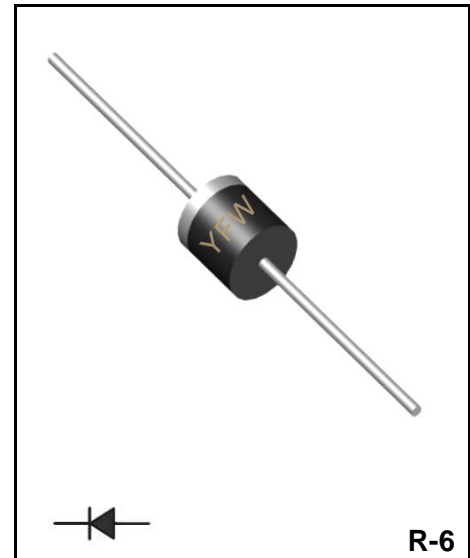
Forward Current - 30A

FEATURES

- ◆ Low cost
- ◆ Diffused junction
- ◆ Low Leakage
- ◆ Low forward voltage drop
- ◆ High current capability
- ◆ Easily cleaned with Freon. Alcohol. Isopropanol 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.

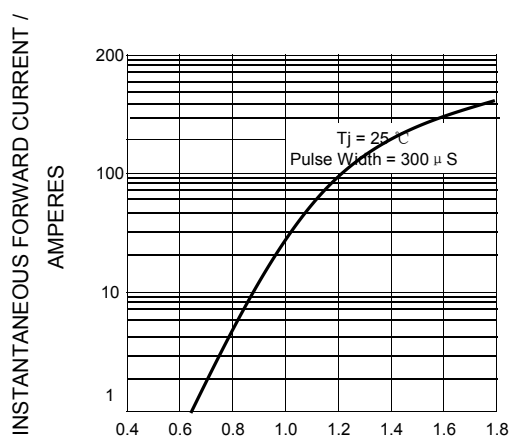
Single phase. half wave. 60HZ. resistive or inductive load. For capacitive load. derate current by 20%

Parameter	Symbols	30A10	Units
Maximum repetitive peak reverse voltage	V_{RRM}	1000	V
Maximum RMS voltage	V_{RMS}	700	V
Maximum DC blocking voltage	V_{DC}	1000	V
Maximum Average Forward Rectified Current 9.5mm Lead Length. $T_A = 75^{\circ}C$	$I_{(AV)}$	30	A
Peak Forward Surge Current 8.3ms Single half-sine-wave superimposed on rated $T_j = 125^{\circ}C$	I_{FSM}	380	A
Maximum Forward Voltage at 30A DC	V_F	1.0	V
Maximum Reverse Current $T_A = 25^{\circ}C$ at Rated DC Blocking Voltage $T_A = 100^{\circ}C$	I_R	5.0 200	μA
Typical Junction Capacitance (Note 1)	C_j	150	pF
Typical Thermal Resistance (Note 2)	R_{qJA}	15	$^{\circ}C/W$
Operating Junction Temperature Range	T_J	-55 to +155	$^{\circ}C$
Storage Temperature Range	T_{STG}	-55 to +155	$^{\circ}C$

NOTE:

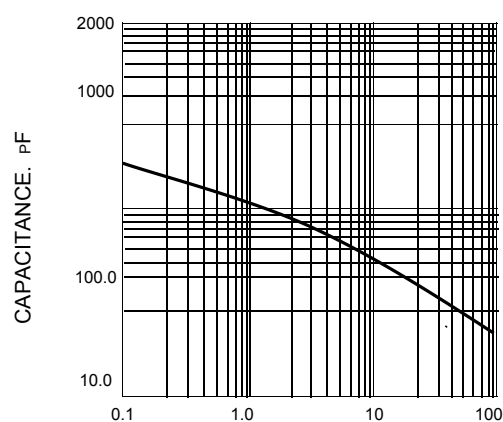
1. Measured at 1.0MHZ and applied reverse voltage of 4.0V DC.
2. Thermal Resistance Junction to Ambient.

FIG.1-TYPICAL FORWARD CHARACTERISTIC



INSTANTANEOUS FORWARD VOLTAGE/VOLTS

FIG.2-TYPICAL JUNCTION CAPACITANCE



REVERSE VOLTAGE / VOLTS

FIG.3-FORWARD CURRENT DERATING CURVE

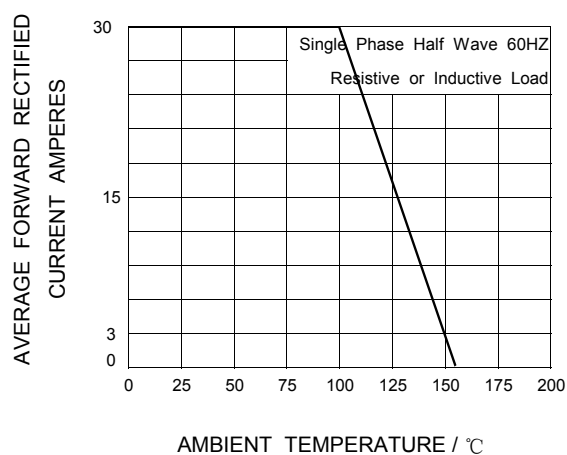
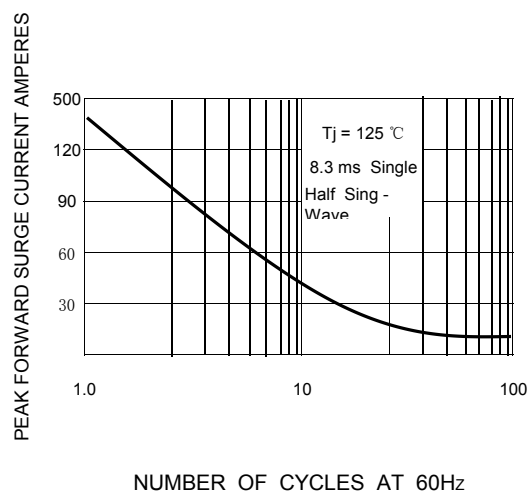


FIG.4-PEAK FORWARD SURGE CURRENT



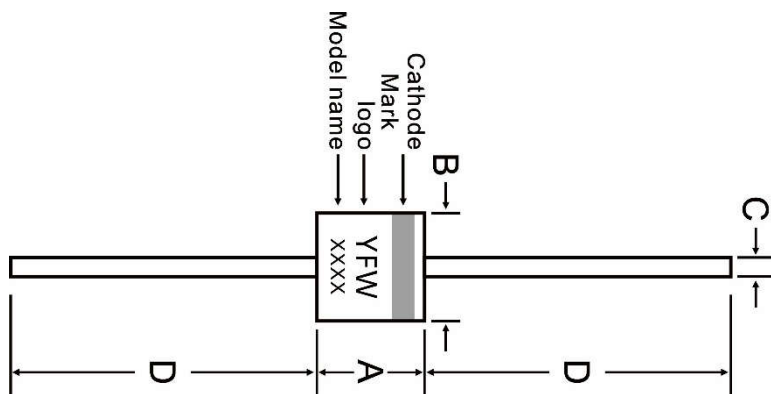
Ordering information

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

Package Dimensions

R-6

Dim.	Millimeter(mm)		INCHES	
	Min.	Max.	Min.	Max.
A	8.60	9.10	0.340	0.360
B	8.60	9.10	0.340	0.360
C	1.20	1.30	0.048	0.052
D	25.40	-	1.00	-



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