

Standard Silicon Rectifiers

Reverse Voltage - 100 to 1000 V

Forward Current - 8 A

FEATURES

♦For surface mounted applications

♦Open Junction chip

♦Low profile package

♦Ideal for automated placement

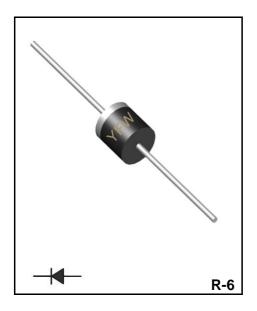
♦Lead free in comply with EU RoHS 2011/65/EU directives

MECHANICAL DATA

♦Case: R-6

♦Terminals: Solderable per MIL-STD-750, Method 2026

♦ Approx. Weight: 2.05g / 0.072oz



Maximum Ratings and Electrical characteristics

Ratings at 25 °C ambient temperature unless otherwise specified. Single phase half-wave 60 Hz, resistive or inductive load, for capacitive load current derate by 20 %.

Parameter	Symbols	8A1	8A2	8A4	8A5	8A6	8A8	8A10	Units
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	100	200	400	500	600	800	1000	V
Maximum RMS voltage	V _{RMS}	70	140	280	350	420	560	700	V
Maximum DC Blocking Voltage	V _{DC}	100	200	400	500	600	800	1000	V
Maximum Average Forward Rectified Current at T _c = 100 °C	I _{F(AV)}	8.0					Α		
Peak Forward Surge Current 8.3 ms Single Half Sine Wave Superimposed on Rated Load	I _{FSM}	300.0					Α		
Maximum Instantaneous Forward Voltage at 8.0A	$V_{\scriptscriptstyle F}$	1.10					V		
Maximum DC Reverse Current T _a = 25 °C at Rated DC Blocking Voltage T _a =125 °C	I _R	10.0 500					μΑ		
Typical Junction Capacitance (1)	C _j	110.0					pF		
Typical Thermal Resistance (2)	$R_{\theta JA}$	10.0					.c\M		
Operating and Storage Temperature Range	T _j , T _{stg}	-55 ~ +150				c			

⁽¹⁾ Measured at 1 MHz and applied reverse voltage of 4 V D.C



Ratings and Characteristic Curves

FIG. 1- DERATING CURVE OUTPUT RECTIFIED CURRENT

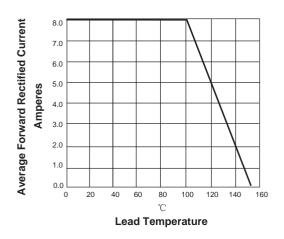


FIG. 3-TYPICAL FORWARD VOLTAGE CHARACTERISTICS

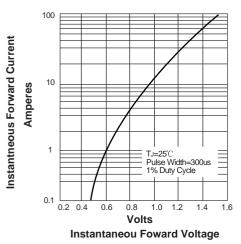


FIG. 2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT PERLEG

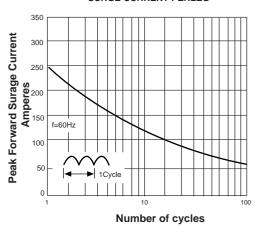
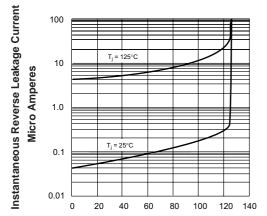


FIG. 4-TYPICAL REVERSE LEAKAGE CHARACTERISTICS



Percent Of Rated Peak Reverse Voltage(%)

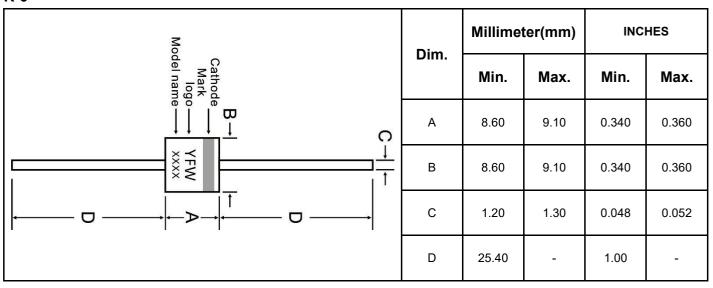


Ordering information

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

Package Dimensions

R-6





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