

# Standard Silicon Rectifiers

Reverse Voltage - 50 to 1000 V

# Forward Current - 1.0 A

#### **FEATURES**

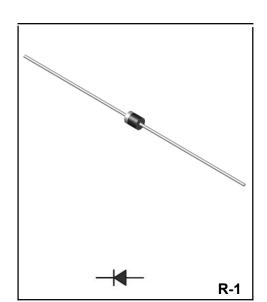
The plastic package carries Underwriters Laboratory Flammability Classification 94V-0
Glass passivated junction chip
Low reverse leakage
High forward surge current capability
High temperature soldering guaranteed
260 °C/10 seconds at terminals

#### **MECHANICAL DATA**

 Case : Molded plastic body
 Terminals : Solder plated, solderable per MIL-STD-750,Method 2026
 Polarity : Polarity symbol marking on body
 Mounting Position : Any

Weight : 0.042 ounce, 0.12 grams

#### **Maximum Ratings And Electrical Characteristics**



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

Parameter	Symbols	1A1	1A2	1A3	1A4	1A5	1A6	1A7	Units
Maximum Repetitive Peak Reverse Voltage	V <sub>RRM</sub>	50	100	200	400	600	800	1000	v
Maximum RMS voltage	V <sub>RMS</sub>	35	70	140	280	420	560	700	v
Maximum DC Blocking Voltage	V <sub>DC</sub>	50	100	200	400	600	800	1000	v
Maximum Average Forward Rectified Current at $T_L$ = 100 °C	I <sub>F(AV)</sub>	1.0					A		
Peak Forward Surge Current 8.3 ms Single Half Sine Wave Superimposed on Rated Load	I <sub>FSM</sub>	30.0					A		
Maximum Instantaneous Forward Voltage at 1.0A	V <sub>F</sub>	1.0					v		
Maximum DC Reverse Current $T_a = 25 \degree C$ at Rated DC Blocking Voltage $T_a=125 \degree C$	I <sub>R</sub>	5.0 200					uA		
Typical junction capacitance (Note1)	Cj	21				pF			
Typical Thermal Resistance	R <sub>eja</sub>	65.0				°C/W			
Operating junction temperature range	Tj	-55 ~ +150					°C		
Storage Temperature Range	T <sub>stg</sub>	-55 ~ +150				°C			

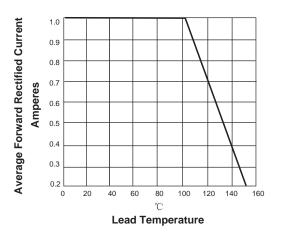
Note: 1.Measured at 1MHz and applied reverse voltage of 4.0V D.C.

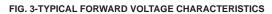
www.yfwdiode.com



#### **Ratings And Characteristic Curves**

FIG. 1- DERATING CURVE OUTPUT RECTIFIED CURRENT





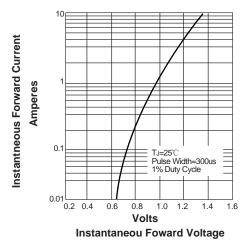
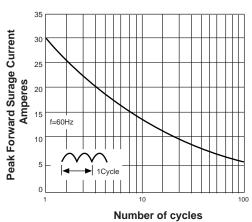
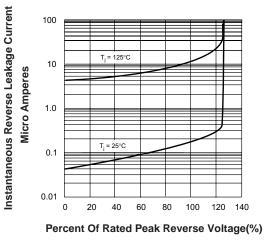


FIG. 2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT PERLEG



Number of cycles

FIG. 4-TYPICAL REVERSE LEAKAGE CHARACTERISTICS



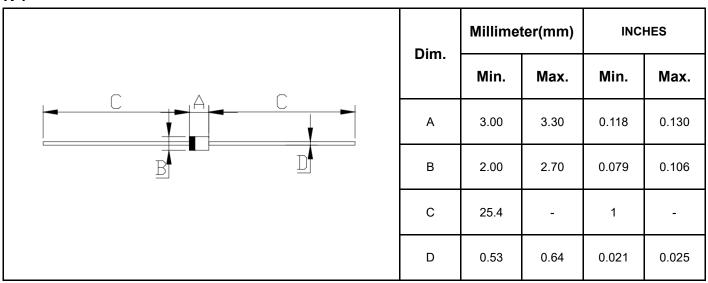


# **Ordering information**

Package	Packing Description	Packing Quantity				
R-1	bulk	1000PCS/Inner Box 30000PCS/Carton				
	ammo pack	5000PCS/Inner Box 50000PCS/Carton				

# **Package Dimensions**









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