

General-purpose Plastic Rectifiers

Reverse Voltage - 1600 V Forward Current - 1.0 A

FEATURES

- ≻Low forward voltage drop
- ≻High current capability
- ≻High reliability
- ➢High surge current capability
- >Low reverse leakage
- ≻High forward surge capability
- ≻High reliability
- ➢High temperature soldering guaranteed: 260 ℃/10seconds,9.5mm lead length
- >Lead and body according with RoHS standard

MECHANICAL DATA

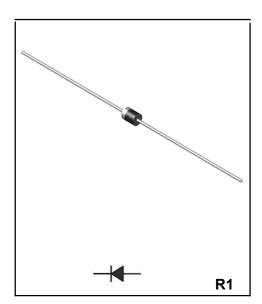
- ➤Case:R-1 Molded plastic
- ➢Epoxy: UL 94V-0 rate flame retardant
- ≻Lead: Pure tin plated, lead free

Maximum Ratings & Characteristics

Ratings at 25° C ambient temperature unless otherwise specified.

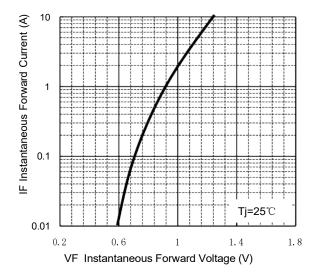
Parameter	Symbols	1A16F	Unit
Maximum repetitive peak reverse voltage	V _{RRM}	1600	V
Maximum RMS voltage	Vrms	1120	V
Maximum DC blocking voltage	V _{DC}	1600	V
Maximum average forward rectified current	lf(AV)	1.0	A
Non-repetitive peak forward surge current 8.3 ms singlehalf sine-wave	Іғѕм	30	A
Maximum Instantaneous Forward Voltage at 1.0A	VF	1.1	V
Maximum DC Reverse Current Ta = 25 °C at Rated DC Blocking Voltage Ta=100 °C	IR	5 500	μA
Typical thermal resistance (Note 1)	R _{0JA}	50	°C/W
Type junction capacitance VR=4.0V,f=1MHz	CJ	15	pF
Operating junction and storage temperature rang	Тј, тѕтб	-55 +150	°C

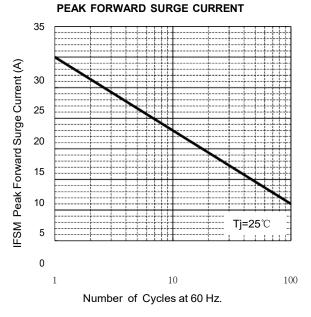
Note:1.Thermal resistance from junction to ambient at 0.375" (9.5 mm) lead length, PCB mounted.





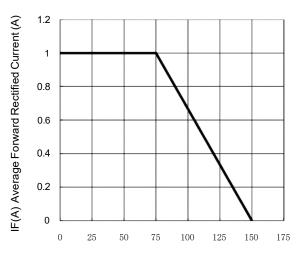
TYPICAL FORWARD CHARACTERISTIC





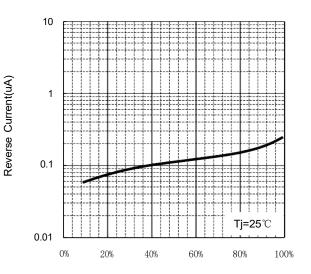
1A16F R-1

FORWARD CURRENT DERATING CURVE



 T_L , Lead temperature (°C)

Typical Reverse Characteristics



Percent Of Rated Peak Reverse voltage %

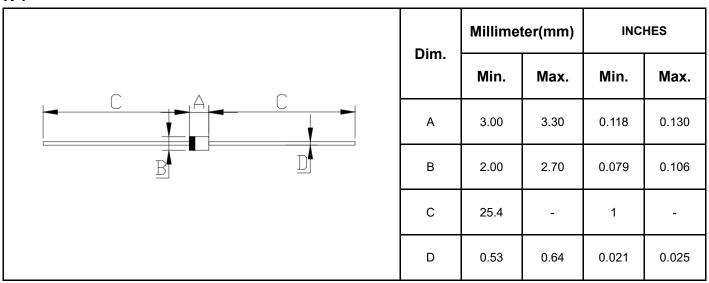


Ordering information

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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