

10A05~10A10

GENERAL PURPOSE PLASTIC RECTIFIER

VOLTAGE	50 to 1000 Volt	CURRENT	10 Ampere
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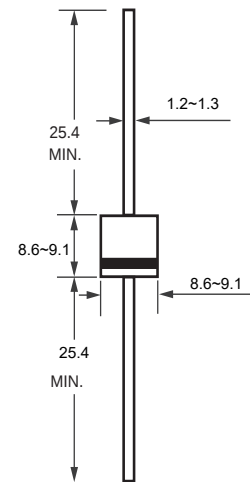
FEATURES

- High current capability
- High surge current capability
- Low Forward Voltage Drop
- Moisture Sensitivity Level 1
- Lead free in compliance with EU RoHS 2.0

MECHANICAL DATA

- Case Material: Molded Plastic.
- UL Flammability Classification Rating 94V-0

R-6 Unit:mm



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

PARAMETER	SYMBOL	10A05	10A1	10A2	10A4	10A6	10A8	10A10	UNITS
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	V _{RMS}	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	V _{DC}	50	100	200	400	600	800	1000	V
Maximum Average Forward Current (see FIG.1)	I _{F(AV)}	10							A
Peak Forward Surge Current : 8.3ms single half sine-wave superimposed on rated load	I _{FSM}	400							A
Maximum Forward Voltage at 10 A	V _F	1.00							V
Maximum DC Reverse Current at Rated DC Blocking Voltage T _A =25°C T _A =100°C	I _R	10 100							uA
Typical Junction Capacitance (Note1)	C _J	150					80		pF
Thermal Resistance	R _{θJA}	10							°C / W
Operating Junction Temperature Range	T _J	-55 to +150							°C
Storage Temperature Range	T _{STG}	-55 to +150							°C

NOTES:

1. Measured at 1.0MHz and applied reverse voltage of 4.0 volt

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RATING AND CHARACTERISTIC CURVES

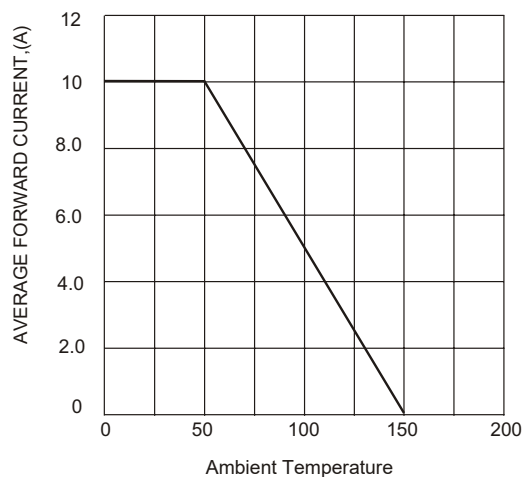


Fig. 1 Forward Current Derating Curve

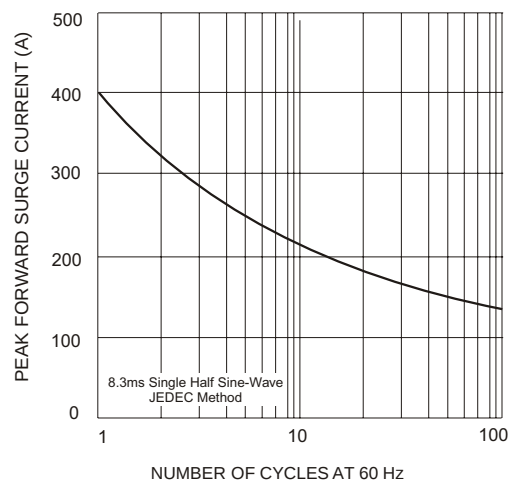


Fig. 2 Surge Current Derating Curve

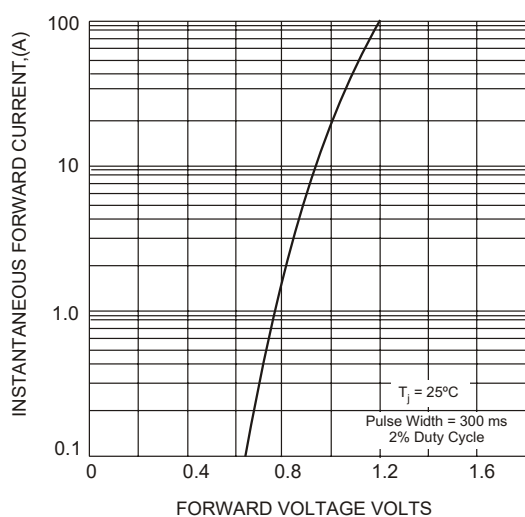


Fig. 3 Typical Forward Characteristics

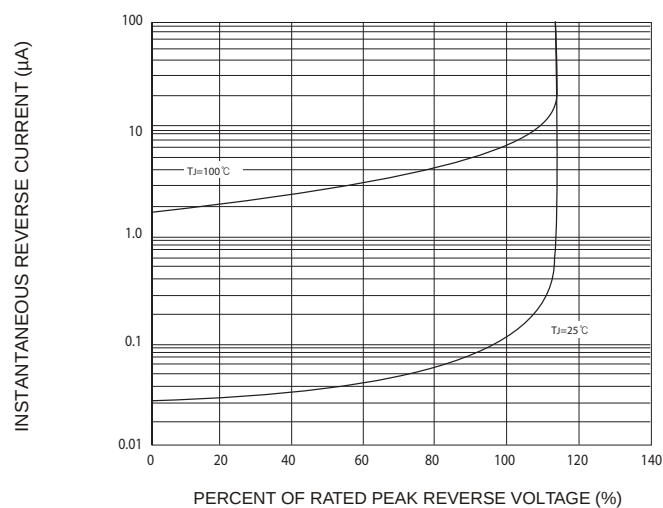


Fig. 4 Typical Reverse Characteristics

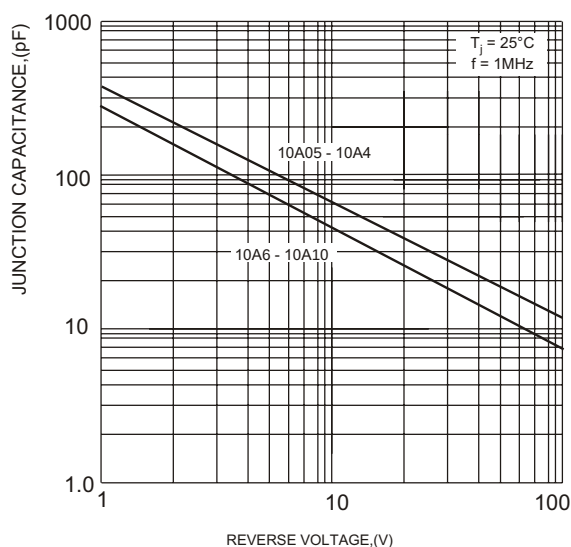


Fig. 5 Typical Junction Capacitance

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ORDER INFORMATION

- Packing information

Part Number	Case	Reel Size	QUANTITY
10A05~10A10	R-6	13 Inch	500