

10A05 THRU 10A100

CURRENT 10 A
VOLTAGE 50 to 1000 V

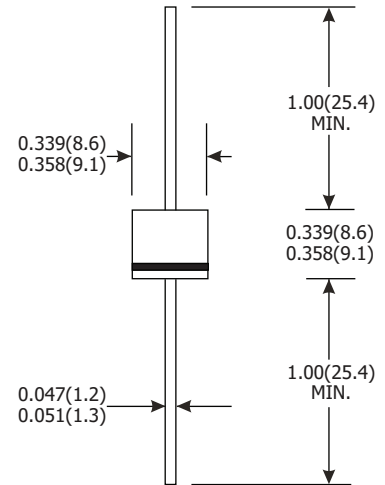
Features

- The plastic package carries Underwrites Laboratory Flammability Classification 94V-0
- High forward current capability
- High surge current capability
- Construction utilizes void-free molded plastic technique
- High temperature soldering guaranteed : 250°C/10 seconds, 0.375"(9.5mm) lead length, 5 lbs, (2.3kg) tension

Mechanical Data

- Package : R-6, Molded Plastic
- Terminals : Lead solderable per MIL-STD-750, method 2026
- Polarity : Color band denotes cathode end
- Mounting Position : Any
- Weight : 0.07 ounce, 2.1 grams

R - 6



Dimensions in inches and (millimeters)

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 by 20%)

Items	Symbols	10A05	10A10	10A20	10A40	10A60	10A80	10A100	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 rectified current 0.375"(9.5mm) lead length T _A =50°C	I _(AV)	10							A
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC method)	I _{FSM}	600							A
Maximum instantaneous forward voltage at 10A	V _F	1.0							V
Maximum reverse current at rated voltage	T _A =25°C	10							μA
	T _A =100°C	100							
Typical thermal resistance (Note 2)	R _{θJA}	20							°C/W
	R _{θJL}	4.0							
Typical junction capacitance (Note 1)	C _J	150							pF
Operating junction and storage temperature range	T _J , T _{STG}	-65 to +150							°C

Notes:

- (1) Measured at 1MHz and applied reverse voltage of 4.0V DC.
- (2) Thermal resistance from junction to ambient and from junction to lead at 0.375"(9.5mm) lead length, P.C.B. mounted with 1.1×1.1"(30×30mm) copper pads.

RATINGS AND CHARACTERISTIC CURVES 10A05 THRU 10A100

FIG.1-FORWARD CURRENT DERATING CURVE

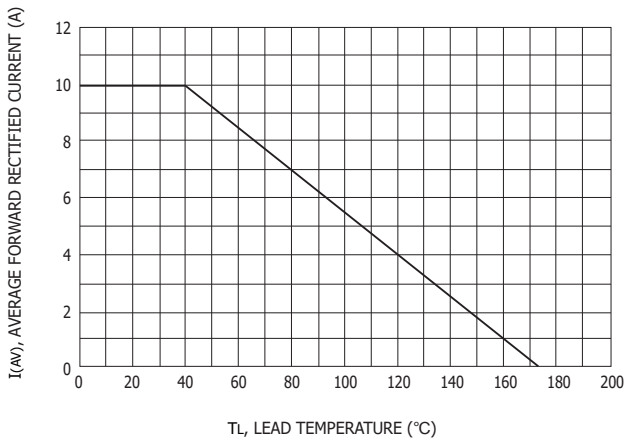


FIG.2-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

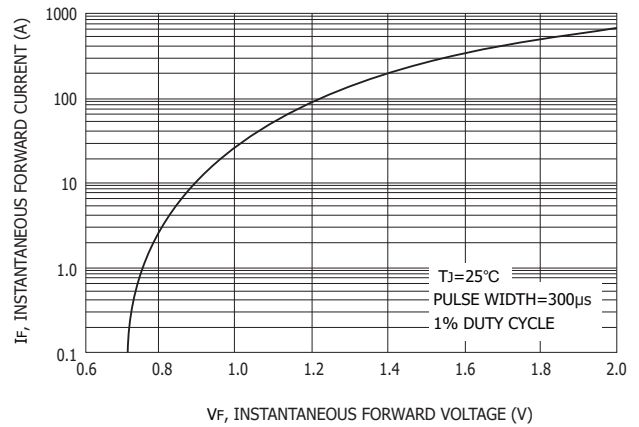


FIG.3-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

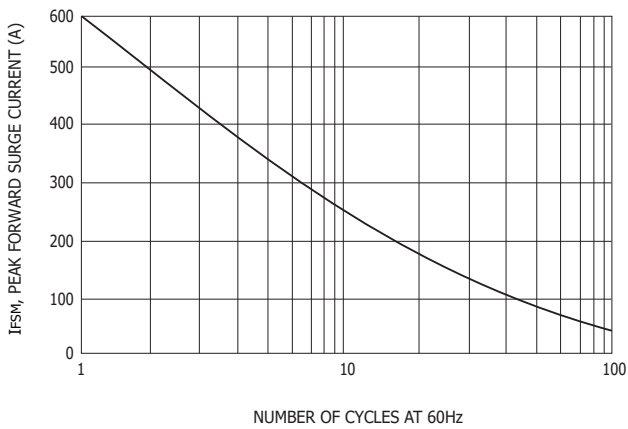


FIG.4-TYPICAL REVERSE CHARACTERISTICS

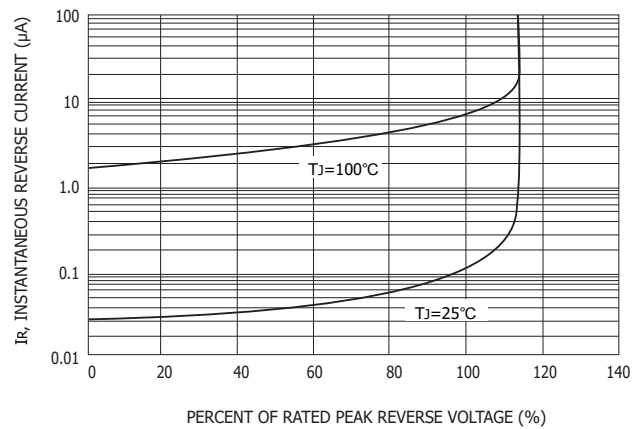


FIG.5-TYPICAL THERMAL RESISTANCE VS LEAD LENGTH

