

R-6

Dimensions in inches and (millimeters)

■ FEATURES

- Low forward voltage drop
- High current capability
- High reliability
- High surge current capability

■ MECHANICAL DATA

- Molded plastic body (UL 94V-0 rated)
- Solderability per MIL-STD-202. Method 208
- Color band denoted cathode end
- Weight: 1.65 grams

■ MAXIMUM RATINGS & ELECTRICAL CHARACTERISTICS (T_a=25°C Unless otherwise specified)

Parameter	Symbol	6A05	6A10	6A20	6A40	6A60	6A80	6A100	Unit
Maximum Repetitive 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" lead length @ T _A = 50°C)	I _{F(AV)}	6.0							A
Peak Forward Surge Current, 8.3ms single half sine-wave superimposed on rated load (JEDEC method)	I _{FSM}	400							A
Maximum Instantaneous Forward Voltage@6.0A	V _F	0.9							V
Maximum DC Reverse Current @ T _A = 25°C At rated DC blocking voltage @ T _A =125°C	I _R	5.0 50							μA
Operating Junction Temperature Range	T _J	-50 to +125							°C
Storage Temperature Range	T _{STG}	-50 to +150							°C

NOTE: Mount on Copper Pad Size 16mm x 16mm on P.C.B.

■ CHARACTERISTICS (TYPICAL)

FIG.1- FORWARD CURRENT DERATING CURVE

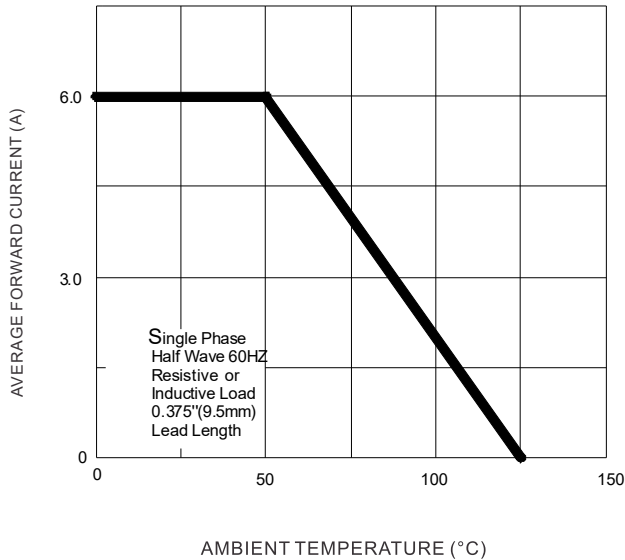


FIG.2- MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

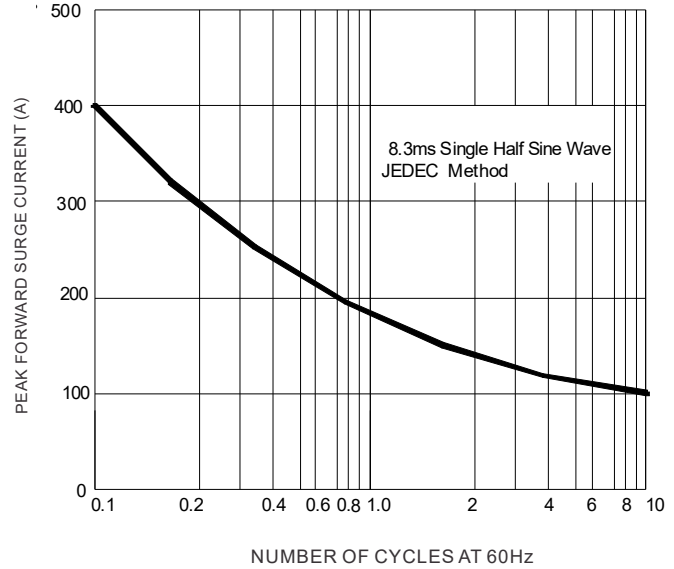


FIG.3- TYPICAL FORWARD CHARACTERISTICS

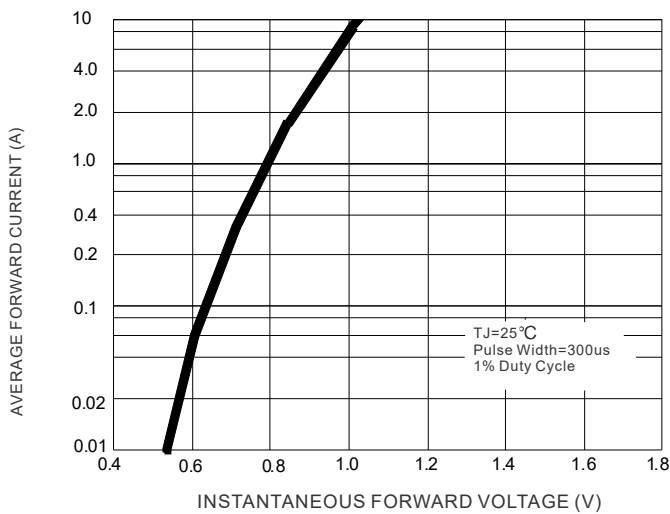


FIG.4- TYPICAL REVERSE CHARACTERISTICS

