6A05G~6A10G

6.0Amp Standard Rectifiers

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 250℃/10 seconds at terminals

MECHANICAL DATA

Case:Molded plastic body

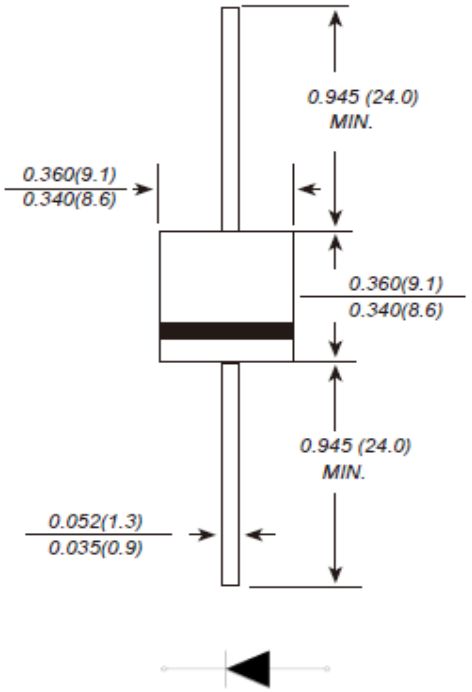
Terminals : Solder plated, solderable per MIL-STD-750, Method 2026

Polarity : Polarity symbol marking on body

Mounting Position : Any

Weight : 0.072 ounce, 2.05 grams

R-6



Dimensions in inches and (milimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25℃ ambient temperature unless otherwise specified.

Single phase, half wave ,60Hz, resistive or inductive load.

For capacitive load, derate current by 20%

CHARACTERISTICS	SYMBOL	6A05G	6A1G	6A2G	6A3G	6A4G	6A5G	6A6G	6A8G	6A10G	UNIT
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	50	100	200	300	400	500	600	800	1000	V
Maximum RMS Voltage	V_{RMS}	35	70	140	210	280	350	420	560	700	V
Maximum DC Blocking Voltage	V_{DC}	50	100	200	300	400	500	600	800	1000	V
Maximum Average Forward Rectified Current at T_L=100℃	$I_{(AV)}$	6.0									A
Peak Forward Surge Current 8.3ms Single Half Sine-Wave Super Imposed on Rated Load	I_{FSM}	200.0									A
Maximum Forward Voltage at 6.0A DC	V_F	1.1									V
Peak Reverse Current T_A =25℃	I_R	5.0									μA
at Rated DC Blocking Voltage T_A=125℃		500									
Typical junction capacitance (Note1)	C_J	100.0									pF
Typical Thermal Resistance	$RqJA$	40.0									℃/W
Operating Temperature Range	T_J	-55 to +150									℃
Storage Temperature Range	T_{STG}	-55 to +150									℃

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

Ratings And Characteristic Curves

FIG. 1- DERATING CURVE OUTPUT RECTIFIED CURRENT

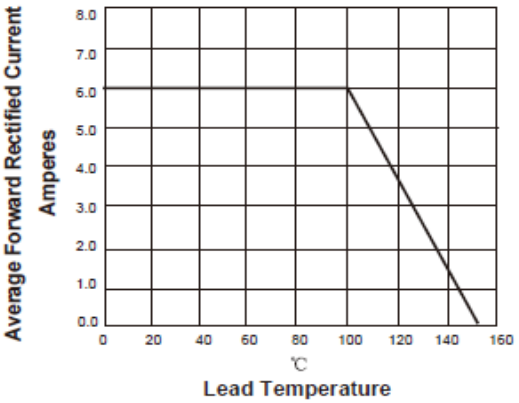


FIG. 2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT PERLEG

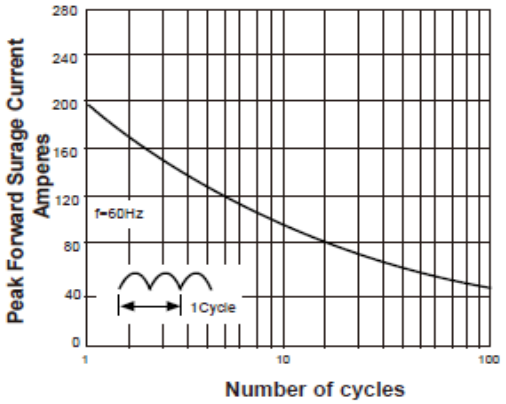


FIG. 3-TYPICAL FORWARD VOLTAGE CHARACTERISTICS

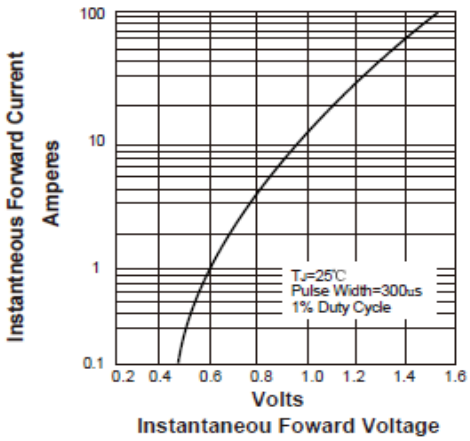


FIG. 4-TYPICAL REVERSE LEAKAGE CHARACTERISTICS