



TAYCHIPST

GLASS PASSIVATED GENERAL PURPOSE RECTIFIERS

6A05G-6A10G

50V-1000V

6.0A

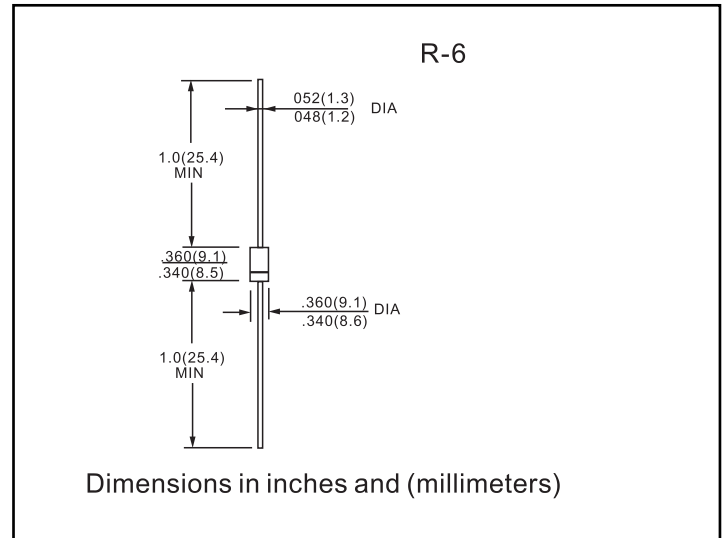
Features

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

Mechanical Data

- ✧ Cases: Molded plastic
- ✧ Epoxy: UL 94V-0 rate flame retardant
- ✧ Lead: Axial leads, solderable per MIL-STD-

- ✧ Polarity: Color band denotes cathode end
- ✧ High temperature soldering guaranteed:
260°C/10 seconds/.375", (9.5mm) lead lengths
at 5 lbs., (2.3kg) tension
- ✧ Weight: 1.65 grams



		6A05G	6A1G	6A2G	6A4G	6A6G	6A8G	6A10G	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 9.5mm lead length, @ $T_A=75^\circ C$	$I_{F(AV)}$	6.0							A
Peak forward surge current 8.3ms single half-sine-wave superimposed on rated load @ $T_J=125^\circ C$	I_{FSM}	400.0							A
Maximum instantaneous forward voltage @ 6.0 A	V_F	1.0							V
Maximum reverse current @ $T_A=25^\circ C$ at rated DC blocking voltage @ $T_A=100^\circ C$	I_R	10.0 100.0							μA
Typical junction capacitance (Note1)	C_J	120							pF
Typical thermal resistance (Note2)	$R_{\theta JA}$	10							$^\circ C/W$
Operating junction temperature range	T_J	- 55 ---- + 175							$^\circ C$
Storage temperature range	T_{STG}	- 55 ---- + 175							$^\circ C$

NOTE: 1. Measured at 1.0MHz and applied reverse voltage of 4.0V DC.
2. Thermal resistance from junction to ambient.

RATINGS AND CHARACTERISTIC CURVES (6A05G THRU 6A100G)

FIG.1- MAXIMUM FORWARD CURRENT DERATING CURVE

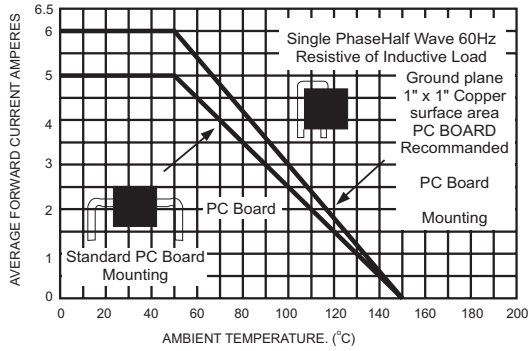


FIG.2- MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

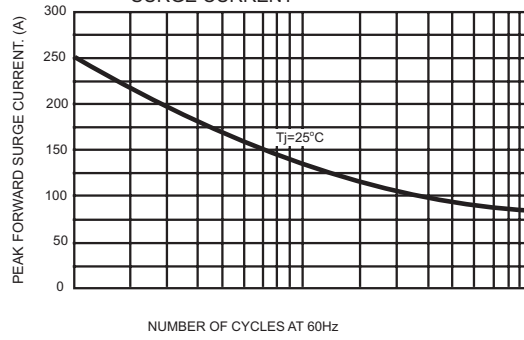


FIG.3- TYPICAL FORWARD CHARACTERISTICS

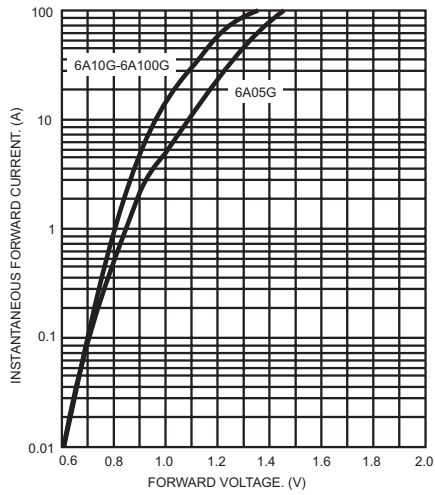


FIG.4- TYPICAL JUNCTION CAPACITANCE

