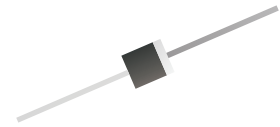


## 6A005-G Thru. 6A10-G

Voltage: 50 to 1000 V

Current: 6.0 A

RoHS Device

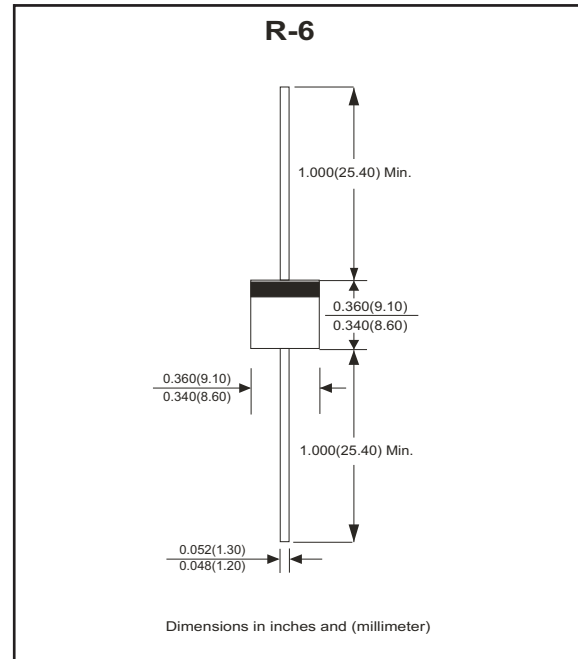


### Features

- Diffused Junction.
- Low forward voltage drop.
- Low reverse leakage current.
- High current capability.

### Mechanical data

- Epoxy: UL 94V-0 rate flame retardant
- Case: JEDEC R-6 molded plastic
- Polarity: Color band denotes cathode
- Weight: 0.07ounce, 2.0 grams
- Mounting position: Any



### Electrical Characteristics (at TA=25°C unless otherwise noted)

Ratings at 25°C ambient temperature unless otherwise specified.  
 Single phase, half wave, 60Hz, resistive or inductive load.  
 For capacitive load derate current by 20%.

Parameter	Symbol	6A005-G	6A01-G	6A02-G	6A04-G	6A06-G	6A08-G	6A10-G	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"(9.5mm) lead length @TA=60°C	$I_{AV}$	6.0							A
Peak forward surge current, 8.3ms single half sine-wave superimposed on rated load (JEDEC method)	$I_{FSM}$	300							A
Maximum forward voltage at 6.0A DC	$V_F$	1.0							V
Maximum reverse current at rated DC blocking voltage	$T_J=25^\circ\text{C}$	$I_R$							$\mu\text{A}$
	$T_J=100^\circ\text{C}$	$I_R$							
Typical junction capacitance (Note 1)	$C_J$	100							pF
Typical thermal resistance (Note 2)	$R_{\theta JA}$	10							°C/W
Operating temperature range	$T_J$	-55 ~ +150							°C
Storage temperature range	$T_{STG}$	-55 ~ +150							°C

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

Company reserves the right to improve product design , functions and reliability without notice.

REV:B

## RATING AND CHARACTERISTIC CURVES (6A005-G Thru. 6A10-G)

Fig.1 Forward Current Derating Curve

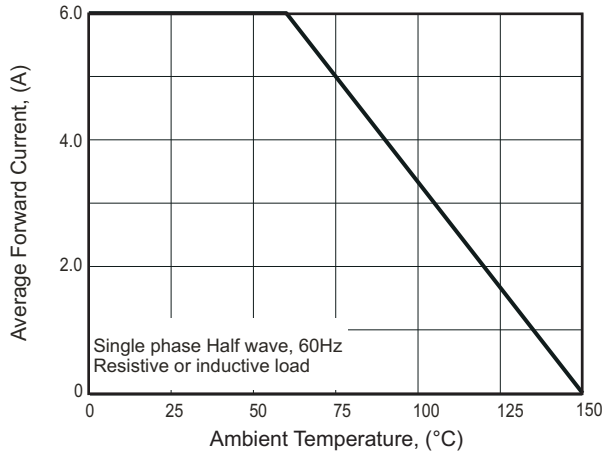


Fig.2 Maximum Non-repetitive Surge Current

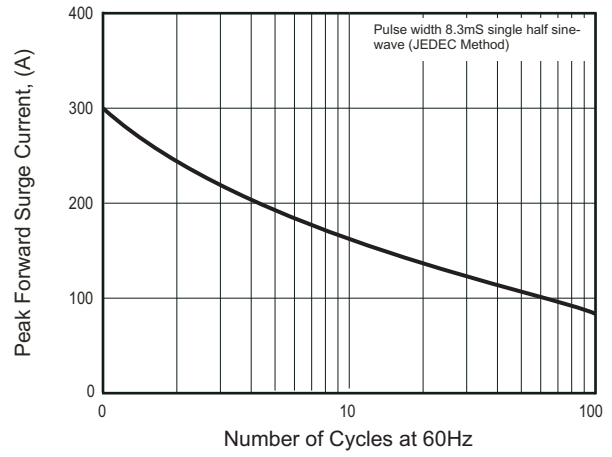


Fig.3 Typical Junction Capacitance

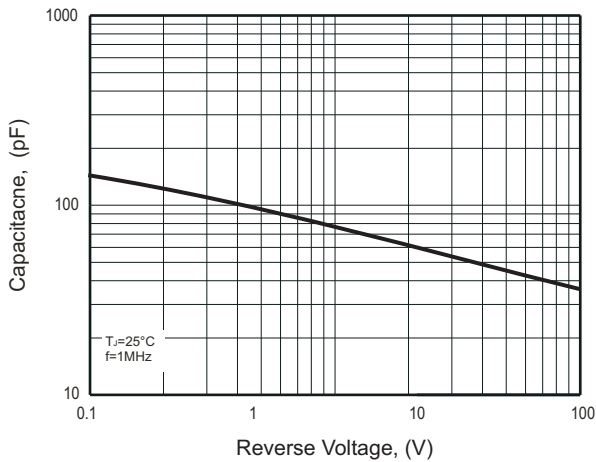


Fig.4 Typical Forward Characteristics

