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General Purpose Silicon Rectifiers

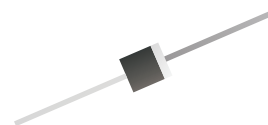


6A005-G Thru. 6A10-G

Voltage: 50 to 1000 V

Current: 6.0 A

RoHS Device

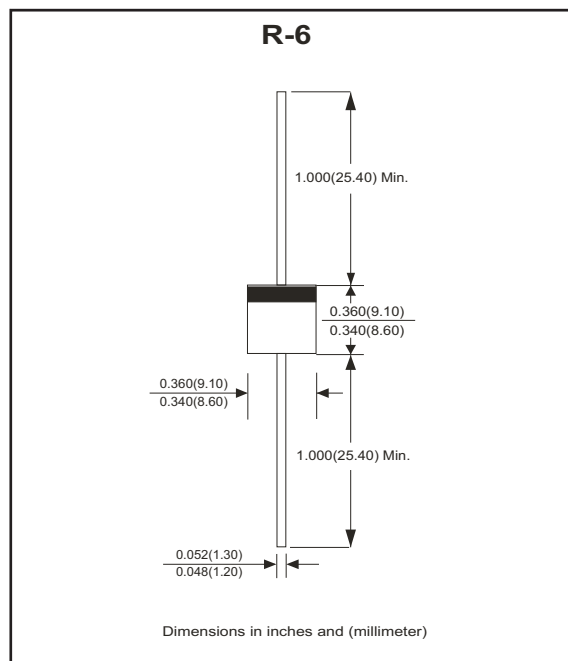


Features

- 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°C	I_R							μA
	T _J =100°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 .

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

Fig.1 Forward Current Derating Curve

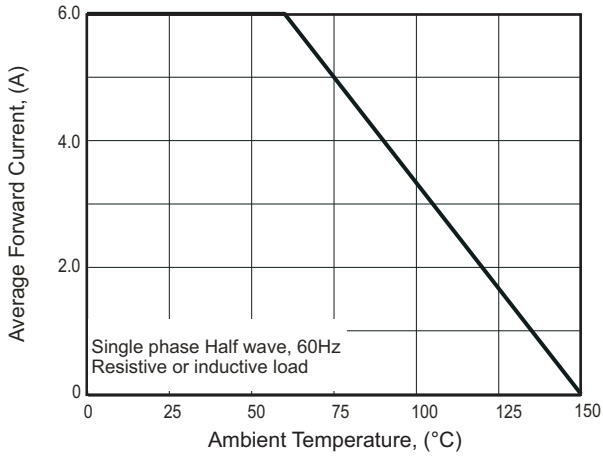


Fig.2 Maximum Non-repetitive Surge Current

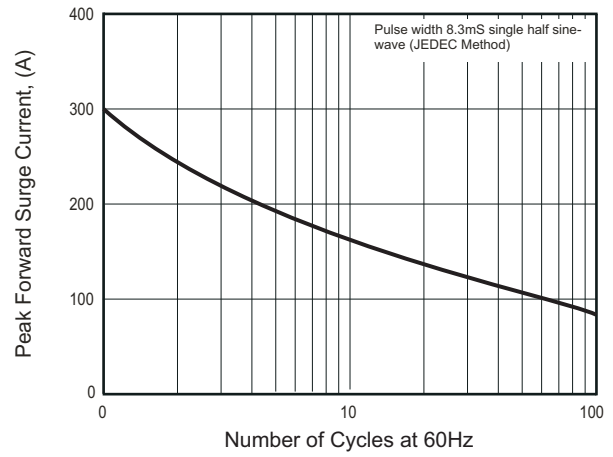


Fig.3 Typical Junction Capacitance

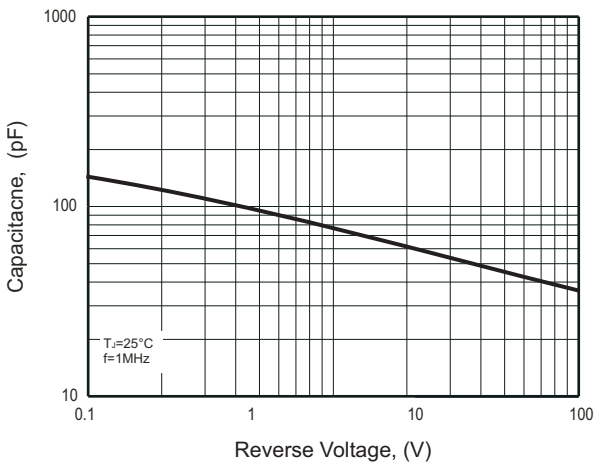
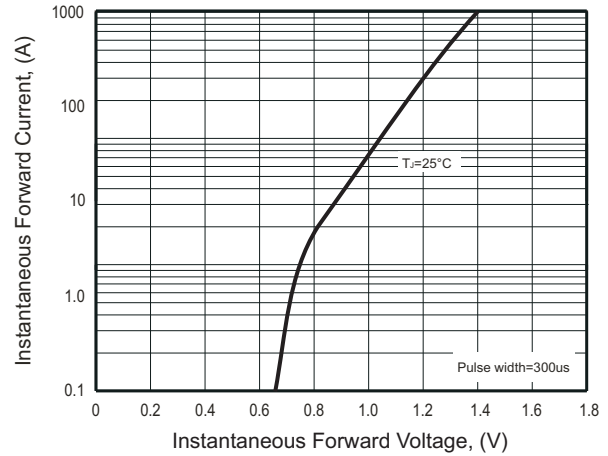


Fig.4 Typical Forward Characteristics



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Marking Code

Part Number	Marking code
6A005-G	6A05
6A01-G	6A1
6A02-G	6A2
6A04-G	6A4
6A06-G	6A6
6A08-G	6A8
6A10-G	6A10
6A005B-G	6A05
6A01B-G	6A1
6A02B-G	6A2
6A04B-G	6A4
6A06B-G	6A6
6A08B-G	6A8
6A10B-G	6A10



X / XX = Product type marking code

Standard Packaging

Case Type	AMMO PACK	
	BOX (pcs)	CARTON (pcs)
R-6	500	5,000

Case Type	BULK PACK	
	BOX (pcs)	CARTON (pcs)
R-6	250	6,000