

6A005G THRU 6A10G



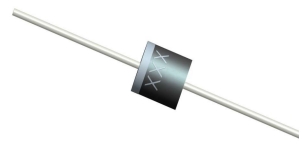
Glass Passivated Silicon Rectifiers

Reverse Voltage: 50 to 1000 Volts

Forward Current: 6.0 Ampere

RoHS Device

Halogen Free

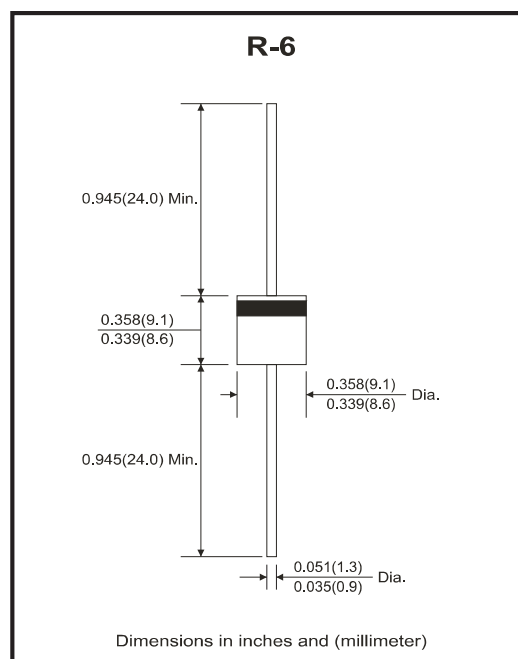


Features

- Low cost
- Low reverse leakage current
- Low forward voltage drop
- High surge capacity
- Meet UL flammability classification 94V-0

Mechanical data

- Case: JEDEC R-6 molded plastic
- Polarity: Color band denotes cathode
- Mounting position: Any



Maximum Ratings and Electrical Characteristics

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	6A005G	6A1G	6A2G	6A4G	6A6G	6A8G	6A10G	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 @T _A =125°C		I _(AV)	6							A
Peak forward surge current, 8.3ms single half sine-wave superimposed on rated load		I _{FSM}	300							A
Maximum instantaneous forward voltage at 6.0A		V _F	1.1							V
Maximum DC reverse current at rated DC blocking voltage	T _A =25°C	I _R	10							μA
	T _A =125°C	I _R	400							
Typical junction capacitance (Note 1)		C _J	150							pF
Typical thermal resistance		R _{θJA}	10							°C/W
Operating junction and storage temperature range		T _J , T _{STG}	-55 ~ +150							°C

Notes: 1. Measured at 1.0MHz and applied reverse voltage of 4.0V DC.

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

Rev:1.0

Rating and Characteristic Curves

Fig. 1 - Forward Current Derating Curve

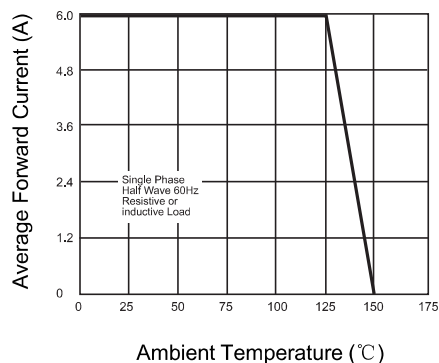


Fig. 2 - Maximum Non-Repetitive Surge Current

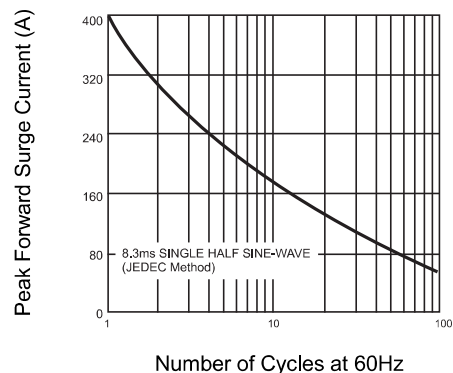


Fig. 3 - Typical Forward Characteristics

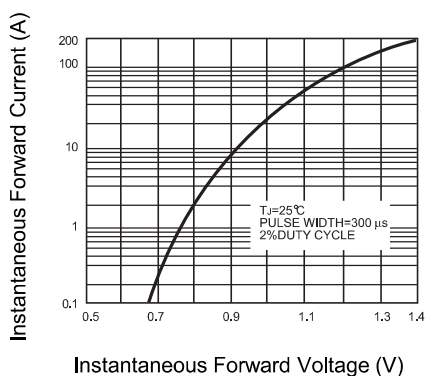


Fig. 4 - Typical Reverse Characteristics

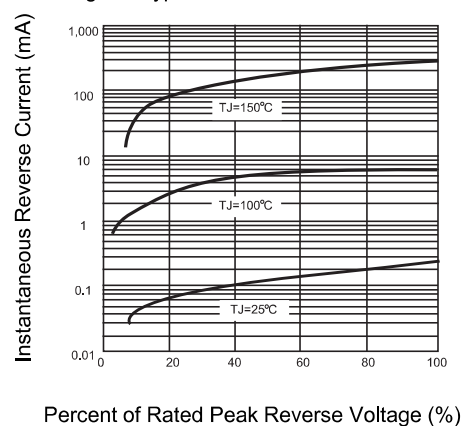


Fig. 5 - Typical Junction Capacitance

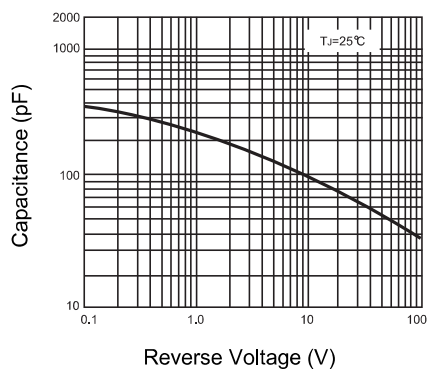
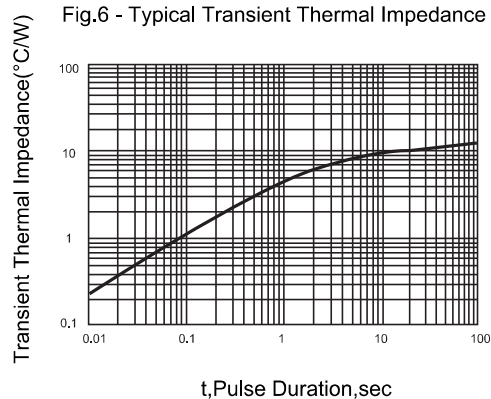


Fig.6 - Typical Transient Thermal Impedance



Marking Code

Part Number	Marking Code	Packaging
6A005G	6A005G	AMMO
6A1G	6A1G	AMMO
6A2G	6A2G	AMMO
6A4G	6A4G	AMMO
6A6G	6A6G	AMMO
6A8G	6A8G	AMMO
6A10G	6A10G	AMMO
6A005GB	6A005G	BULK
6A01GB	6A1G	BULK
6A02GB	6A2G	BULK
6A04GB	6A4G	BULK
6A06GB	6A6G	BULK
6A08GB	6A8G	BULK
6A10GB	6A10G	BULK



X / XX = Product type marking code

Note:

(1) Suffix code after part number to specify packaging item.

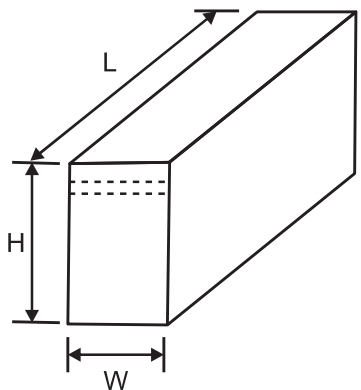
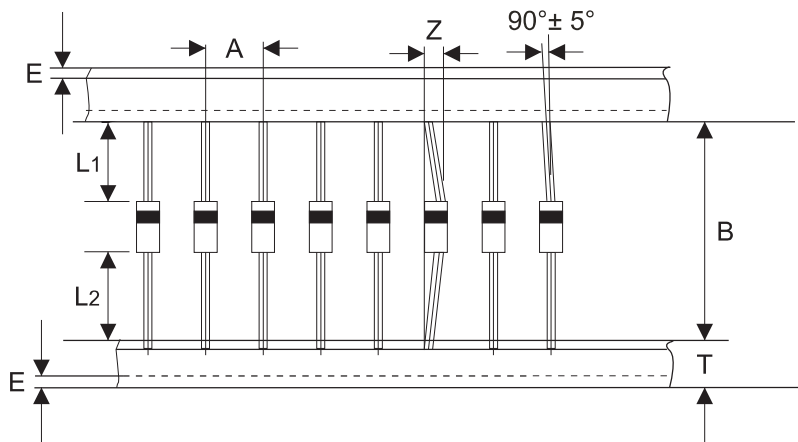
Packaging	Code
AMMO PACK	NA
BULK PACK	B

Standard Packaging

Case Type	AMMO PACK
	BOX (pcs)
R-6	500

Case Type	BULK PACK
	BOX (pcs)
R-6	200

Taping Specification For Axial Lead Diodes



R-6	SYMBOL	A	B	Z	T	E	IL1-L2I
	(mm)	10.00 ± 0.50	52.40 + 1.50 - 0.40	1.20 (max)	6.00 ± 0.40	0.80 (max)	1.00 (max)
	(inch)	0.394 ± 0.020	2.063 + 0.059 - 0.016	0.047 (max)	0.236 ± 0.016	0.031 (max)	0.039 (max)

R-6	SYMBOL	L	W	H			
	(mm)	255 ± 5.00	75 ± 5.00	150 ± 5.00			
	(inch)	10.039 ± 0.20	2.953 ± 0.197	5.906 ± 0.197			