

GLASS PASSIVATED SILICON RECTIFIER

VOLTAGE RANGE 1000 Volts CURRENT 6.0 Amperes

FEATURES

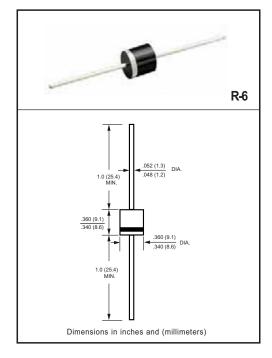
- * High surge current capability
- * Low leakage
- * Low forward voltage drop
- * High current capability
- * Low lost

MECHANICAL DATA

- * Case: Molded plastic black body
- * Epoxy: Device has UL flammability classification 94V-O
- * Lead: MIL-STD-202E method 208C guaranteed
- * Mounting position: Any *Weight: 2.18 grams

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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



$\textbf{MAXIMUM RATINGS} \ (@\ \mathsf{TA=25\ ^{\circ}C}\ unless\ otherwise\ noted)$

RATINGS	SYMBOL	6A10G	UNITS
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	1000	Volts
Maximum RMS Voltage	V _{RMS}	700	Volts
Maximum DC Blocking Voltage	V _{DC}	1000	Volts
Maximum Average Forward Rectified Current at TA = 50°C	I _O	6.0	Amps
Peak Forward Surge Current IFM(surge): 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	I _{FSM}	500	Amps
Current Squarad Time	I ² t	1037	A ² Sec
Typical Thermal Resistance (Note 2)	R _{0JA}	10	°C/W
Typical Junction Capacitance (Note 1)	CJ	150	pF
Operating and Storage Temperature Range	T _J , T _{STG}	-55 to + 150	۰C

ELECTRICAL CHARACTERISTICS(@TA=25 °C unless otherwise noted)

CHARACTERISTICS		SYMBOL	6A10G	UNITS
Maximum Forward Voltage at 6.0A DC		VF	1.0	Volts
Maximum DC Average Reverse Current at	@T _A = 25°C	- l _R	1.0	uAmps
Rated DC Blocking Voltage	@T _A = 150°C		2.0	mAm ps
Maximum Full Load Reverse Current Average .375" (9.5mm) Lead Length at T _L =75°C	Full Cycle	, ,,	30	uAmps

NOTES: 1. Measured at 1.0 MHz and applied average voltage of 4.0VDC

2. Thernal Resistance: At 9.5mm lead lengths, PCB mounted.

2020-10 REV: E

RATING AND CHARACTERISTICS CURVES (6A10G)

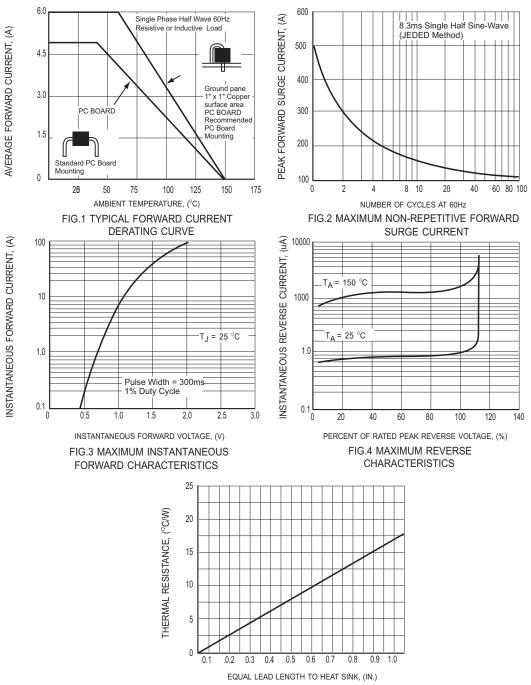


FIG.5 TYPICAL THERMAL RESISTANCE vs. LEAD LENGTH



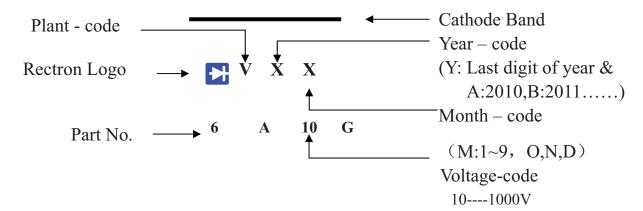


Attachment information about 6A10G

1. Internal Circuit



2. Marking on the body





Attachment information about 6A10G

4. Items marked on the reel box and carton

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4.1 On the reel (for –T)
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CUSTOMER

TYPE

QUANTITY

LOT NO.

Q.A.

REMARK

4.2 On the box (for –E & -F)

TYPE

QUANTITY

LOT NO.

Q.A.

4.3 On the carton

CUSTOMER

TYPE

QUANTITY

LOT NO.

REMARK

PACKAGING OF DIODE AND BRIDGE RECTIFIERS

BULK PACK

PACKAGE	PACKING CODE	EA PER BOX	INNER BOX SIZE (mm)	CARTON SIZE (mm)	EA PER CARTON	GROSS WEIGHT(Kg)	
R-6/R-7	-B	200	300*73*40	347*320*271	4,800	12.93/14.57	

REEL PACK

PACKAGE	PACKING CODE	EA PER REEL	EA PER INNER BOX	COMPONENT SPACE (mm)	TAPE SPACE (mm)	REEL DIA (mm)	CARTON SIZE (mm)	EA PER CARTON	GROSS WEIGHT(Kg)
R-6/R-7	-T	800	800	9.5	52	330	355*350*335	3,200	9.72/9.91

AMMO PACK

PACKAGE	PACKING CODE	REEL (EA)	COMPONENT SPACE(mm)	TAPE SPACE (mm)	BOX SIZE (mm)	CARTON SIZE(mm)	CARTON (EA)	GROSS WEIGHT (Kg)
R-6/R-7	-F	300	9.5	52	255*73*100	400*268*225	3,000	8.5/8.7



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