

# **Excellent Integrated System Limited**

Stocking Distributor

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Diodes Incorporated 6A10-T

For any questions, you can email us directly: <u>sales@integrated-circuit.com</u>



**Distributor of Diodes Incorporated: Excellent Integrated System Limited** Datasheet of 6A10-T - DIODE GEN PURP 1KV 6A R6 Contact us: sales@integrated-circuit.com Website: www.integrated-circuit.com



# <u>6A05 - 6A10</u>

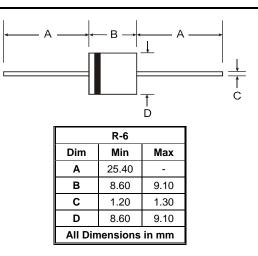
**6.0A SILICON RECTIFIER** 

## **Features**

- High Surge Current Capability
- Low Leakage and Forward Voltage Drop
- Lead Free Finish, RoHS Compliant (Note 1)

### **Mechanical Data**

- Case: R-6
- Case Material: Molded Plastic. UL Flammability Classification Rating 94V-0
- Moisture Sensitivity: Level 1 per J-STD-020C
- Terminals: Finish Tin. Axial Leads, Solderable per MIL-STD-202, Method 208 (2)
- Polarity: Color Band Indicates Cathode
- Ordering Information: See Page 3
- Approximate Weight: 2.1 grams



# Maximum Ratings and Electrical Characteristics @T<sub>A</sub> = 25°C unless otherwise specified

Ratings at 25°C ambient temperature unless otherwise specified.

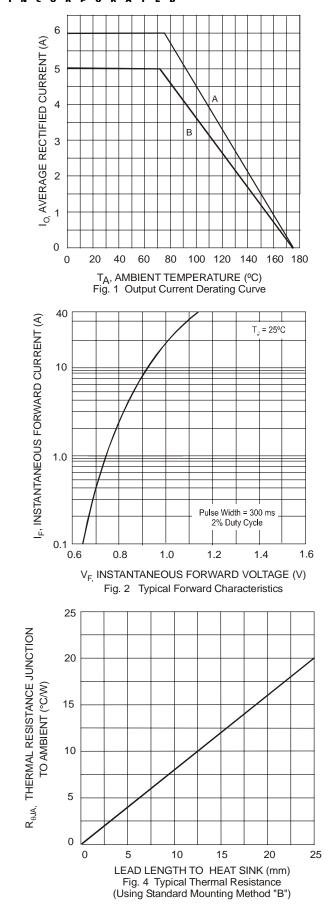
Characteristic	Symbol	6A05	6A1	6A2	6A4	6A6	6A8	6A10	Unit
Maximum Recurrent Peak Reverse Voltage	V <sub>RRM</sub>	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	V <sub>RMS</sub>	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	V <sub>DC</sub>	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current 9.5mm lead length @ $T_A = 75^{\circ}C$ (See Fig. 1)	I <sub>(AV)</sub>	6.0				А			
Peak Forward Surge Current 8.3 ms single half sine- wave superimposed on rated load	I <sub>FSM</sub>	400				А			
Maximum Instantaneous Forward Voltage at 6.0A DC	V <sub>FM</sub>	0.90				V			
$ \begin{array}{llllllllllllllllllllllllllllllllllll$	I <sub>RM</sub>	10 100				μA			
Operating and Storage Temperature Range	T <sub>i</sub> , T <sub>STG</sub>	-65 to +175				°C			

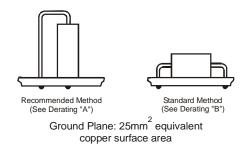
Notes: 1. RoHS revision 13.2.2003. Glass and high temperature solder exemptions applied, see EU Directive Annex Notes 5 and 7.



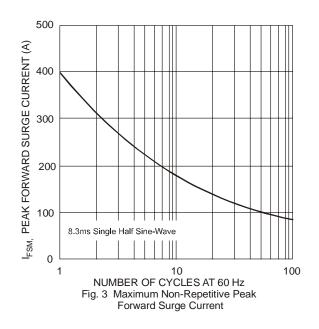
**Distributor of Diodes Incorporated: Excellent Integrated System Limited** Datasheet of 6A10-T - DIODE GEN PURP 1KV 6A R6 Contact us: sales@integrated-circuit.com Website: www.integrated-circuit.com







Printed Circuit Board Mounting Method







## Ordering Information (Note 2)

Device	Packaging	Shipping		
6A05-T	R-6	500/Tape & Reel, 13-inch		
6A1-T	R-6	500/Tape & Reel, 13-inch		
6A2-T	R-6	500/Tape & Reel, 13-inch		
6A4-T	R-6	500/Tape & Reel, 13-inch		
6A6-T	R-6	500/Tape & Reel, 13-inch		
6A8-T	R-6	500/Tape & Reel, 13-inch		
6A10-T	R-6	500/Tape & Reel, 13-inch		

Notes: 2. For packaging details, go to our website at http://www.diodes.com/datasheets/ap02008.pdf.

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