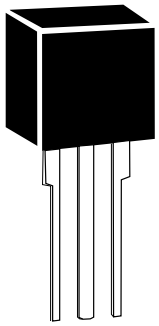
TECCOR® ELECTRONICS



“A” Package
Modified TO-220

SIDACtor®

Solid State Overvoltage Protection

P6002AD

Features

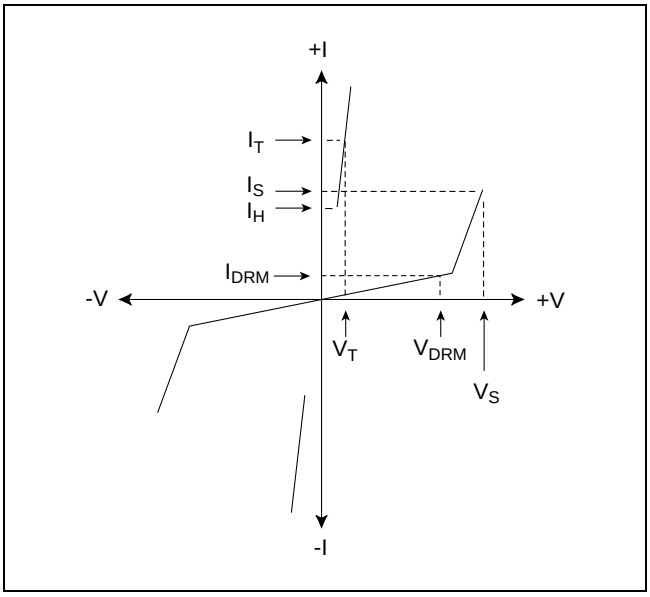
- Bidirectional transient voltage protection
- Clamping speed of nanoseconds
- Surge current capability 300A, 10 x 1000µs and 1000A, 2 x 10µs
- Glass passivated junctions for superior reliability
- Utilizes patented ion implant technology for superior surge performance

ISO 9001 TECCOR ELECTRONICS

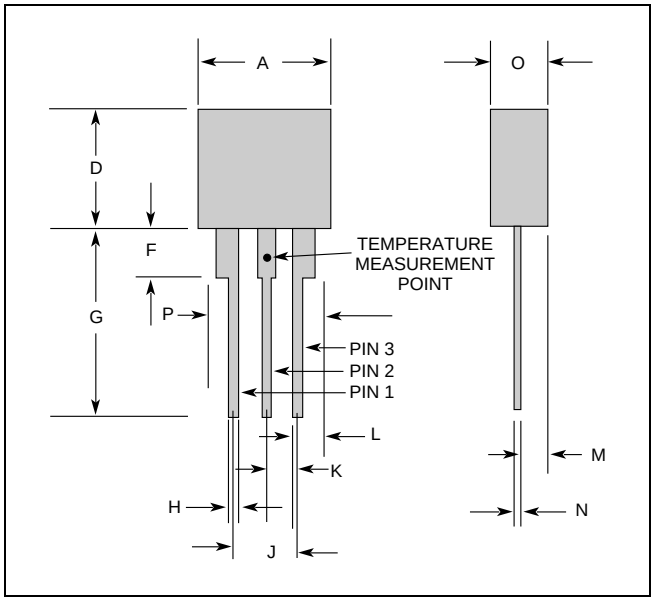
Electrical Specifications P6002AD

Parameters	Description	Test Condtions	Values Pins 3-2, 1-2	Values Pins 1-3	Units
V_{DRM}	Maximum Blocking Voltage	Measured at I_{DRM}	275	550	V
V_S	Maximum Switching Voltage	100V/µs	350	700	V
V_T	Maximum On-State Voltage	Measured at I_T	5	5	V
I_{DRM}	Maximum Leakage Current	Measured at V_{DRM}	5	5	µA
I_S	Maximum Switching Current	@25°C	800	800	mA
I_T	Continuous On-State Current	Measured at V_T	1	1	A
I_{PP}	Maximum Rated Peak Pulse Current	10 x 1000µs 2 x 10µs	300 1000	300 1000	A A
I_H	Minimum Holding Current	@ 25°C	260	260	mA
C_O	Typical Off-State Capacitance	$2V_{DC}$ BIAS	230	115	pF

V-I Characteristics



Modified TO-220



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Please contact the factory for further information.

Data Sheet: P6002AD - 1200

An Invensys company

· All leads are insulated from case. Case is electrically non-conductive (rated at 1600VAC RMS for 1 minute from leads to case over the operating temperature range).

Dimension	Millimeters	
	Min	Max
A	10.16	10.42
D	9.14	9.53
F	2.80	3.30
G	13.71	14.61
H	0.63	0.89
J	4.95	5.21
K	2.41	2.67
L	1.90	2.16
M	1.78	2.16
N	0.46	0.61
O	4.52	4.78
P	7.87	