TECHNICAL DATA
DATA SHEET 285, REV -

TRANSIENT VOLTAGE SUPPRESSOR DIODE

(500 Watt)

DESCRIPTION: 5.2 VOLT, 175 MILLIAMP, AXIAL LEAD TRANSIENT VOLTAGE SUPPRESSOR DIODE.

MAX. RATINGS / ELECTRICAL CHARACTERISTICS All ratings are at $T_A = 25^oC$ unless otherwise specified.

RATING	CONDITIONS	MIN	TYP	MAX	UNIT
Breakdown Voltage @ I_{BR}		6.12 6.46	-	-	Vdc
Test Current (I_{BR})		-	-	175	mAmps dc
Working Peak Reverse Voltage (W_{RWM})		-	-	5.2	Vdc
Maximum Reverse Current (I_{R1})	T_A = 25° C T_A = 125° C	-	-	100 500	µAmps dc
Maximum Clamp Voltage $V_{C\ (max)}$	@ I_P, tp = 1ms	-	-	11.0 10.5	Volts (pk)
Maximum Peak Pulse Current (I_P)		-	-	45.4 47.6	Amps (pk)
Maximum Temperature Coefficient ($V_{(BR)}$)		-	-	.05	%/°C
Maximum Reverse Current (I_R)	@ T_A = 150°C	-	-	4000	µAmps dc
Operating and Storage Temp. (T_{op} & T_{stg})		-55	-	+175	°C

Notes:

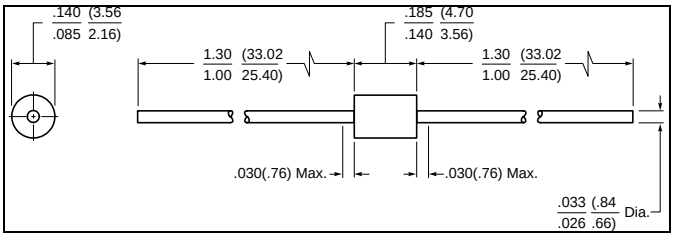
P_R = 2W for 500W peak pulse power devices at T_A = +25°C.

P_R = 3W (for 500W peak pulse power devices at T_L = +75°C for L = 0.375 inch (9.53mm).

P_{PR} = 500W

-55°C ≤ T_{op} ≤ +175°C, -55°C ≤ T_{stg} ≤ +175°C (ambient temperatures).

MECHANICAL DIMENSIONS In Inches / (mm), min./max.



401

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