SENSITRON
SEMICONDUCTOR

TECHNICAL DATA
DATA SHEET 194, REV. B
Formerly Part Number SHD3251

HERMETIC ULTRAFAST RECTIFIER

SINGLE / DUAL - COM. CATHODE / COM. ANODE / DOUBLER

DESCRIPTION: 200 VOLT, 16 AMP, 35 NANOSECOND, HERMETIC RECTIFIER IN A TO-254 PACKAGE.

MAX RATINGS/ELECTRICAL CHARACTRISTIC ALL RATINGS ARE AT T_A = 25 C) UNLESS OTHERWISE SPECIFIED

RATING	SYMBOL	MAX.	UNITS
PEAK INVERSE VOLTAGE (PER LEG)	PIV	200	Volts
MAXIMUM FORWARD VOLTAGE DROP @ T_A = 25°(PER LEG) SINGLE / COMMON CATHODE (P) COMMON ANODE (N) / DOUBLER (D) (I_f = 16 Amps)	V_f	1.2 1.27	Volts
MAXIMUM FORWARD VOLTAGE DROP @ T_A = 125° (PER LEG) SINGLE / COMMON CATHODE (P) COMMON ANODE (N) / DOUBLER (D) (I_f = 16 Amps)	V_f	1.1 1.17	Volts
MAXIMUM DC OUTPUT CURRENT (T_C = 100 ^{O}C)	I_O	16	Amps
PEAK SINGLE CYCLE SURGE CURRENT t_p = 8.3 msec	I_{FSM}	150	Amps
MAXIMUM REVERSE RECOVERY TIME (I_f = 0.5A, I_r = 1.0A, I_{rr} = 0.25A)	t_{rr}	35	nsec
MAXIMUM REVERSE CURRENT I_{rr} @ PIV (PER LEG) @ T_A = 25°C	I_{rr}	25	μA
MAXIMUM REVERSE CURRENT I_{rr} @ PIV (PER LEG) @ T_A = 125°C	I_{rr}	1.0	mA
MAXIMUM THERMAL RESISTANCE (PER LEG)	$R\theta_{JC}$	2.8	°C/W
MAXIMUM OPERATING AND STORAGE TEMPERATURE RANGE	$T_{op/stg}$	-65to +175	°C

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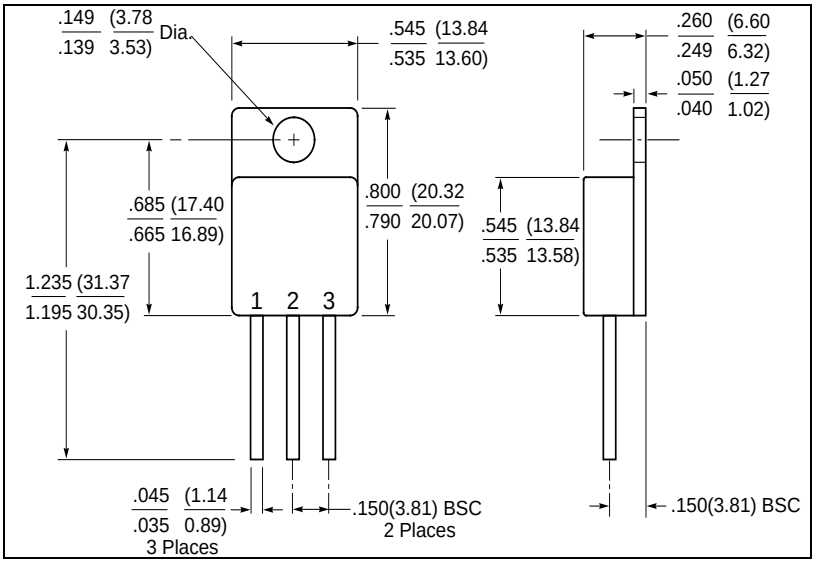
MECHANICAL DIMENSIONS: In Inches / mm



TO-254

PINOUT TABLE

DEVICE TYPE	PIN 1	PIN 2	PIN 3
SINGLE RECTIFIER	CATHODE	ANODE	ANODE
DUAL RECTIFIER/COMMON CATHODE (P)	ANODE 1	COMMON CATHODE	ANODE 2
DUAL RECTIFIER/COMMON ANODE (N)	CATHODE 1	COMMON ANODE	CATHODE 2
DUAL RECTIFIER/DOUBLER (D)	ANODE	ANODE/ CATHODE	CATHODE

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