

TECHNICAL DATA
DATASHEET 4744, REV. -

HERMETIC POWER SCHOTTKY RECTIFIER 100°C Maximum Operation Temperature

DESCRIPTION: A 15-VOLT, 35 AMP, POWER SCHOTTKY RECTIFIER IN A HERMETIC TO-254 PACKAGE.

MAXIMUM RATINGS

ALL RATINGS ARE @ $T_C = 25^\circ\text{C}$ UNLESS OTHERWISE SPECIFIED.

RATING	SYMBOL	MAX.	UNITS
PEAK INVERSE VOLTAGE	PIV	15	Volts
MAXIMUM DC OUTPUT CURRENT (@ $T_C=70^\circ\text{C}$) (Single, Doubler)	I_O	35	Amps
MAXIMUM NONREPETITIVE FORWARD SURGE CURRENT ($t=8.3\text{ms}$, Sine)	I_{FSM}	150	Amps
MAXIMUM JUNCTION CAPACITANCE ($V_r=5\text{V}$)	C_T	7200	pF
MAXIMUM THERMAL RESISTANCE (Single)	$R_{\theta JC}$	0.33	$^\circ\text{C/W}$
MAXIMUM OPERATING TEMPERATURE RANGE	Top/Tstg	-65 to + 100	$^\circ\text{C}$
MAXIMUM STORAGE TEMPERATURE RANGE	Top/Tstg	-65 to + 100	$^\circ\text{C}$

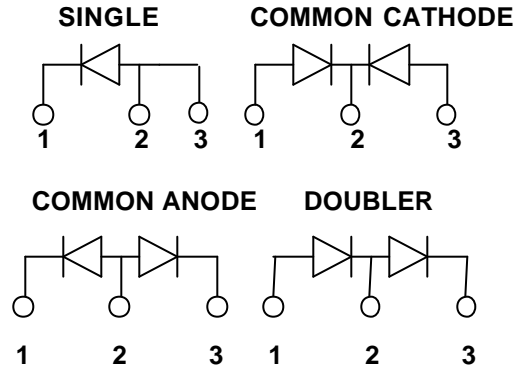
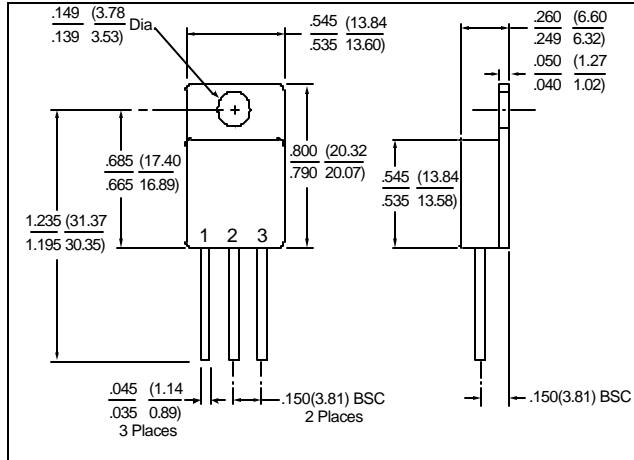
ELECTRICAL CHARACTERISTICS

CHARACTERISTIC	SYMBOL	MAX.	UNITS
MAXIMUM FORWARD VOLTAGE DROP, Pulsed ($I_f = 35$ Amps) $T_J = 25^\circ\text{C}$ $T_J = 75^\circ\text{C}$	V_f	0.50 0.45	Volts
MAXIMUM REVERSE CURRENT ($I_r @ 15$ V PIV) $T_J = 25^\circ\text{C}$ $T_J = 100^\circ\text{C}$	I_r	40 2000	mA

SENSITRON

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Mechanical Dimensions: In inches / mm



TO-254

PINOUT TABLE

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	CATHODE/ ANODE	CATHODE

Curves shown are for bare die only.

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