

TECHNICAL DATA
DATA SHEET 973, REV. B**HERMETIC POWER SCHOTTKY RECTIFIER**

DESCRIPTION: A 150 VOLT, 15 AMP, SINGLE / DOUBLER; 30 AMP COMMON CATHODE / COMMON ANODE, POWER SCHOTTKY RECTIFIER IN A TO-254 PACKAGE.

ADD THE LETTER "C" AFTER THE PREFIX SHD TO ORDER THE DEVICE WITH CERAMIC SEALS.

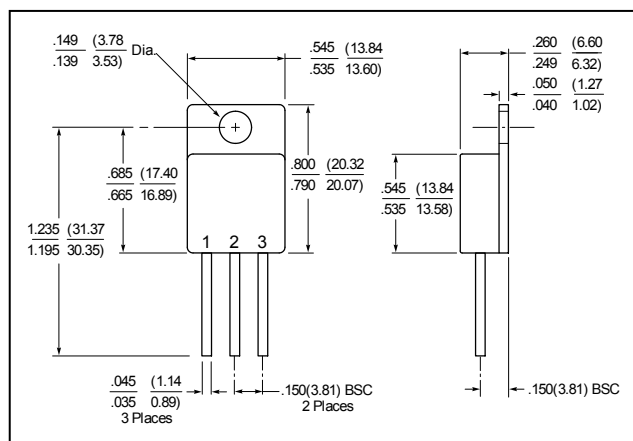
MAXIMUM RATINGSALL RATINGS ARE AT $T_C = 25^\circ\text{C}$ UNLESS OTHERWISE SPECIFIED.

RATING	SYMBOL	MAX.	UNITS
PEAK INVERSE VOLTAGE (PER LEG)	PIV	150	Volts
MAXIMUM DC OUTPUT CURRENT (PER LEG) SINGLE / DOUBLER $(T_C = 100^\circ\text{C})$	I_O	15	Amps
MAXIMUM DC OUTPUT CURRENT (PER LEG) COMMON CATHODE / COMMON ANODE $(T_C = 100^\circ\text{C})$	I_O	30	Amps
MAXIMUM NONREPETITIVE FORWARD SURGE CURRENT ($t = 8.3\text{ms}$, Sine) (PER LEG)	I_{FSM}	150	Amps
JUNCTION CAPACITANCE $V_R = 5\text{Vdc}$, $f = 1\text{MHz}$ $V_{SIG} = 50\text{mV (p-p) (Max)}$	C_T	500	pF
MAXIMUM THERMAL RESISTANCE (PER LEG)	$R_{\theta JC}$	2.82	$^\circ\text{C/W}$
MAXIMUM OPERATING TEMPERATURE RANGE	T_{op}	-65 to +175	$^\circ\text{C}$
MAXIMUM STORAGE TEMPERATURE RANGE	T_{stg}	-65 to +175	$^\circ\text{C}$

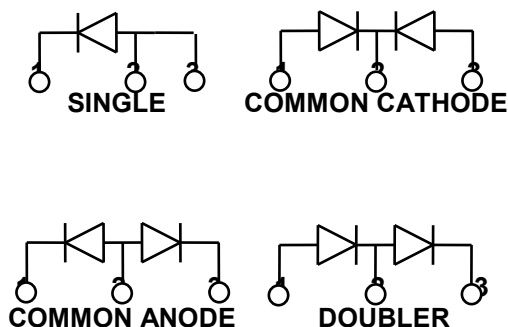
ELECTRICAL CHARACTERISTICS

CHARACTERISTIC	SYMBOL	MAX.	UNITS
MAXIMUM FORWARD VOLTAGE DROP (per leg, $I_F = 15\text{A}$) $T_J = 25^\circ\text{C}$ $T_J = 125^\circ\text{C}$	V_f	1.01 0.85	Volts Volts
MAXIMUM REVERSE CURRENT I_r @ PIV (per leg, I_r @ 150V PIV)) $T_J = 25^\circ\text{C}$ $T_J = 125^\circ\text{C}$	I_r	0.7 8.0	mA mA

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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
DOUBLER (D)	ANODE	ANODE/CATHODE	CATHODE

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