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 RATINGS

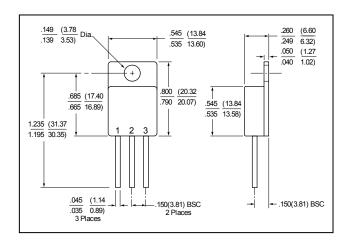
ALL RATINGS ARE AT T_C = 25 °C UNLESS OTHERWISE SPECIFIED.

	ALE INTINOONIE IN 19-20 O ONE COO O'MENTINE OF COMMENT					
RATING		SYMBOL	MAX.	UNITS		
PEAK INVERSE VOLTAGE (PER LEG)		PIV	150	Volts		
MAXIMUM DC OUTPUT CURRENT (PER LEG) SINGLE / DOUBLER	(T _C = 100 °C)	I _O	15	Amps		
MAXIMUM DC OUTPUT CURRENT (PER LEG) COMMON CATHODE / COMMON ANODE	(T _C = 100 °C)	I _O	30	Amps		
MAXIMUM NONREPETITIVE FORWORD SURGE CURRENT (t = 8.3ms, Sine) (PER LEG)			150	Amps		
JUNCTION CAPACITANCE V _R = 5Vdc, f = 1MHz			500	pF		
V _{SIG} = 50mV (p-p) (Max)						
MAXIMUM THERMAL RESISTANCE (PER LEG)		$R_{ heta JC}$	2.82	°C/W		
MAXIMUM OPERATING TEMPERATURE RANGE		T _{op}	-65 to +175	ွ		
MAXIMUM STORAGE TEMPERATURE RANGE		T _{stg}	-65 to +175	°C		

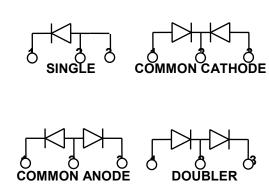
ELECTRICAL CHARACTERISTICS

CHARACTERISTIC	SYMBOL	MAX.	UNITS
MAXIMUM FORWARD VOLTAGE DROP (per leg, I _F = 15A)			
T _J = 25 °C	V_f	1.01	Volts
T _J = 125 °C		0.85	Volts
MAXIMUM REVERSE CURRENT I _r @ PIV (per leg, I _r @ 150V PIV))		0.7	mA
T _J = 25 °C	l _r	8.0	mA
T _J = 125 °C			

TECHNICAL DATA DATA SHEET 973, REV. B



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

DISCLAIMER:

- 1- The information given herein, including the specifications and dimensions, is subject to change without prior notice to improve product characteristics. Before ordering, purchasers are advised to contact the Sensitron Semiconductor sales department for the latest version of the datasheet(s).
- 2- In cases where extremely high reliability is required (such as use in nuclear power control, aerospace and aviation, traffic equipment, medical equipment, and safety equipment), safety should be ensured by using semiconductor devices that feature assured safety or by means of users' fail-safe precautions or other arrangement.
- 3- In no event shall Sensitron Semiconductor be liable for any damages that may result from an accident or any other cause during operation of the user's units according to the datasheet(s). Sensitron Semiconductor assumes no responsibility for any intellectual property claims or any other problems that may result from applications of information, products or circuits described in the datasheets.
- 4- In no event shall Sensitron Semiconductor be liable for any failure in a semiconductor device or any secondary damage resulting from use at a value exceeding the absolute maximum rating.
- 5- No license is granted by the datasheet(s) under any patents or other rights of any third party or Sensitron Semiconductor.
- 6- The datasheet(s) may not be reproduced or duplicated, in any form, in whole or part, without the expressed writ ten permission of Sensitron Semiconductor.
- 7- The products (technologies) described in the datasheet(s) are not to be provided to any party whose purpose in their application will hinder maintenance of international peace and safety nor are they to be applied to that purpose by their direct purchasers or any third party. When exporting these products (technologies), the necessary procedures are to be taken in accordance with related laws and regulations.