TECHNICAL DATA DATA SHEET 4053, REV. B

POWER SCHOTTKY RECTIFIER Very Low Voltage Drop

FEATURES:

Available Screened to Mil-S-19500, TX, TXV and S Levels Add "C" for ceramic seals (example: SHDC124522)

DESCRIPTION: 45 VOLT, 45 AMP POWER SCHOTTKY RECTIFIER IN A HERMETIC TO-258 PACKAGE.

MAXIMUM RATINGS	ALL RATINGS ARE @ T_c = 25 °C UNLESS OTHERWISE SPECIFIED.				
RATING		SYMBOL	MAX.	UNITS	
PEAK INVERSE VOLTAGE		PIV	45	Volts	
MAXIMUM DC OUTPUT CURRENT @ T _C =100 ^O C		Ι _Ο	45	Amps	
MAXIMUM NONREPETITIVE FORWARD SURG	GE CURRENT	I _{FSM}	200	Amps	
(t = 8.3ms, Sine) (per leg)					
MAXIMUM THERMAL RESISTANCE (per leg)		$R_{ ext{ heta}JC}$	1.15	°C/W	
MAXIMUM JUNCTION TEMPERATURE RANGE		Тор	-65 to + 175	°C	
MAXIMUM OPERATING AND STORAGE TEMPERATURE RANGE		Tstg	-65 to + 175	°C	

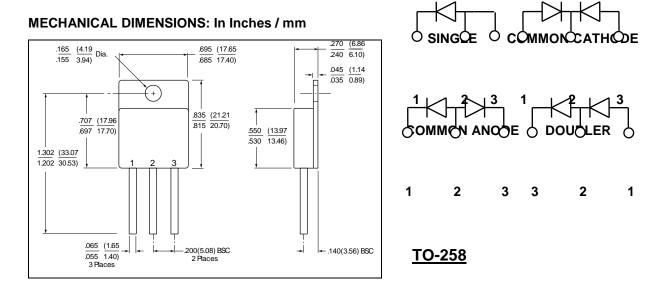
ELECTRICAL CHARACTERISTICS

CHARACTERISTIC			
MAXIMUM FORWARD VOLTAGE DROP, Pulsed ($I_f = 45 \text{ Amps}$) (per leg)			
T _J =25 °C	Vf	0.86	Volts
T _J = 125 °C		0.77	
MAXIMUM REVERSE CURRENT (Ir @ 45V PIV) (per leg)			
T _J =25 °C	l _r	1.2	mA
T _J = 125 °C		45	
MAXIMUM JUNCTION CAPACITANCE ($V_r = 5V$) (per leg)		2400	pF

SENSITRON SEMICONDUCTOR

SHD124522 SHD124522P SHD124522N SHD124522D

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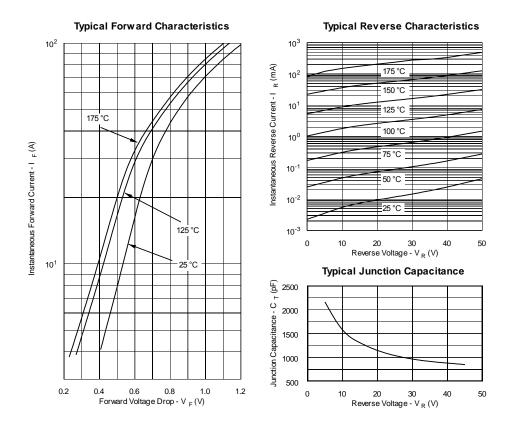
PINOUT TABLE

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

SENSITRON SEMICONDUCTOR

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Note: Vf curves are for die only



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