SENSITRON SEMICONDUCTOR

TECHNICAL DATA DATA SHEET 824, REV. B

HERMETIC POWER SCHOTTKY RECTIFIER

Applications:

• Switching Power Supply • Converters • Free-Wheeling Diodes • Polarity Protection Diode

Features:

- Ultra low Reverse Leakage Current
- Soft Reverse Recovery at Low and High Temperature
- Very Low Forward Voltage Drop
- Low Power Loss, High Efficiency
- High Surge Capacity
- Guard Ring for Enhanced Durability and Long Term Reliability
- Guaranteed Reverse Avalanche Characteristics
- Out Performs 60 Volt Ultrafast Rectifiers

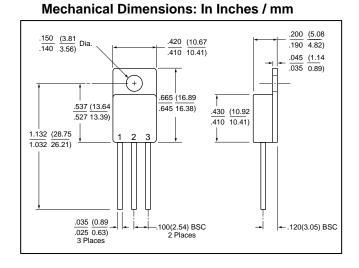
Maximum Ratings:

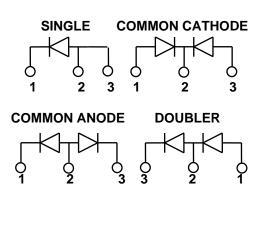
Characteristics	Symbol	Condition	Max.	Units
Peak Inverse Voltage	V _{RWM}	-	60	V
Max. Average Forward Current	I _{F(AV)}	50% duty cycle, rectangular wave form.	15	A
Max. Peak One Cycle Non- Repetitive Surge Current	I _{FSM}	8.3 ms, half Sine wave (per leg)	75	A
Max. Thermal Resistance	$R_{ ext{ heta}JC}$	(per leg)	1.45	°C/W
Max. Junction Temperature	TJ	-	-65 to +175	°C
Max. Storage Temperature	T _{stg}	-	-65 to +175	°C

Electrical Characteristics:

Characteristics	Symbol	Condition	Max.	Units
Max. Forward Voltage Drop	V _{F1}	@ 15A, Pulse, T _J = 25 °C	1.1	V
		(per leg)		
	V _{F2}	@ 15A, Pulse, T _J = 125 °C	1.0	V
		(per leg)		
Max. Reverse Current	I _{R1}	$@V_R = 60V$, Pulse,	0.55	mA
		T _J = 25 °C (per leg)		
	I _{R2}	$@V_R = 60V$, Pulse,	12.0	mA
		T _J = 125 °C (per leg)		
Max. Junction Capacitance C _T		@V _R = 5V, T _C = 25 °C	500	pF
		f _{SIG} = 1MHz,		
		$V_{SIG} = 50 \text{mV} (p-p) (per leg)$		

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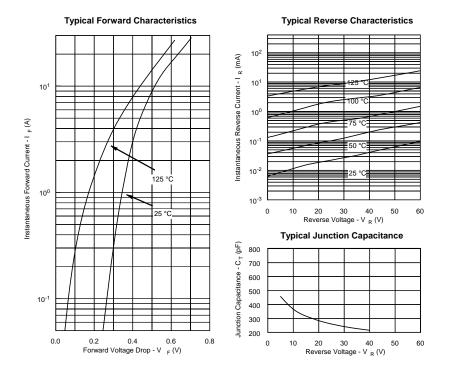




TO-257

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	ANODE/CATHODE	CATHODE



	SHD126223
	SHD126223P
	SHD126223N
TECHNICAL DATA	SHD126223D

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