

TECHNICAL DATA DATA SHEET 1153, REV. -

HERMETIC POWER SCHOTTKY RECTIFIER Low Reverse Leakage 200°C Operating Temperature

Applications:

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

Features:

- 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
- Available with Ceramic Seals

Maximum Ratings:

Characteristics	Symbol	Condition	Max.	Units	
Peak Inverse Voltage	V _{RWM}	-	100	V	
Max. Average Forward Current	I _{F(AV)}	50% duty cycle, rectangular wave form	45	А	
Max. Peak One Cycle Non- Repetitive Surge Current	I _{FSM}	8.3 ms, half Sine wave	200	A	
Max. Junction Temperature	TJ	-	-65 to +200	°C	
Max. Storage Temperature	T _{stg}	-	-65 to +175	°C	
Max. Thermal Resistance	$R_{\theta JC}$	Single	0.60	°C/W	
Max. Thermal Resistance	R _{θJC}	Common Cathode, Common Anode, Doubler	0.30	°C/W	

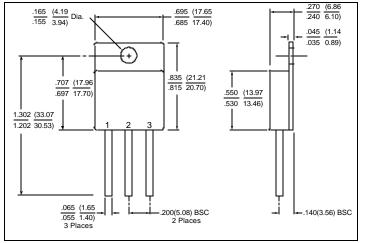
Electrical Characteristics:

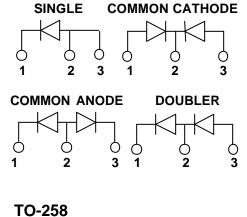
Characteristics	Symbol	Condition	Max.	Units
Max. Forward Voltage Drop	V _{F1}	@ 45A, Pulse, T _J = 25 °C	1.10	V
	V _{F2}	@ 45A, Pulse, T _J = 125 °C	0.92	V
Max. Reverse Current	I _{R1}	@V _R = 100V, Pulse,	0.30	mA
		$T_J = 25 \ ^{\circ}C$		
	I _{R2}	@V _R = 100V, Pulse,	3.0	mA
		T _J = 125 °C		
Max. Junction Capacitance	CT	@V _R = 5V, T _C = 25 °C	1500	pF
		f _{SIG} = 1MHz,		
		$V_{SIG} = 50 mV (p-p)$		

SENSITRON

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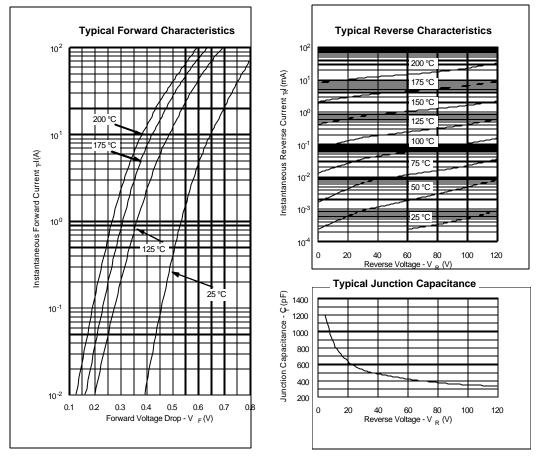
MECHANICAL DIMENSIONS: In Inches / mm





PINOUT TABLE

ТҮРЕ	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)	CATHODE	ANODE/CATHODE	ANODE



Curves are given for un-packaged die.



TECHNICAL DATA

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