TECHNICAL DATA DATA SHEET 4676, REV. -

HERMETIC POWER SCHOTTKY RECTIFIER Low Forward Voltage

Applications:

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

Features:

- Soft Reverse Recovery at Low and High Temperature
- 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

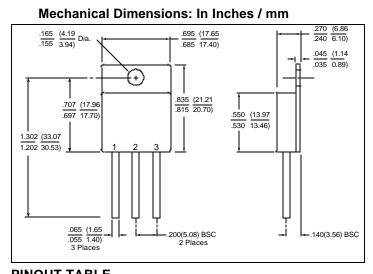
Maximum Ratings:

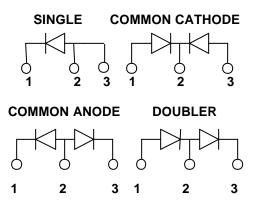
Characteristics	Symbol	Condition	Max.	Units
Peak Inverse Voltage	V _{RWM}	-	100	V
Max. Average Forward Current	I _{F(AV)}	50% duty cycle, rectangular wave form (Single/Doubler)	7.5	A
Max. Average Forward Current	I _{F(AV)}	50% duty cycle, rectangular wave form (Common	15	A
		Cathode/Common Anode)		
Max. Peak One Cycle Non- Repetitive Surge Current	I _{FSM}	8.3 ms, half Sine wave (per leg)	140	A
Max. Thermal Resistance	$R_{\theta JC}$	(Single)	1.36	°C/W
Max. Junction Temperature	TJ	-	-65 to +200	°C
Max. Storage Temperature	T _{stg}	-	-65 to +200	О°

Electrical Characteristics:

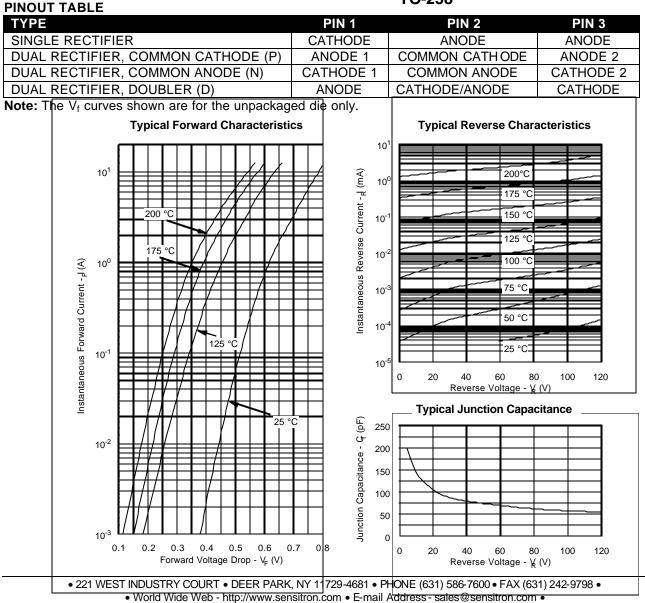
Characteristics	Symbol	Condition	Max.	Units
Max. Forward Voltage Drop	V _{F1}	@ 7.5A, Pulse, T _J = 25 °C	0.93	V
		(per leg)		
	V _{F2}	@ 7.5A, Pulse, T _J = 125 °C	0.77	V
		(per leg)		
Max. Reverse Current	I _{R1}	@V _R = 100V, Pulse,	0.18	μA
		$T_J = 25 \ ^{\circ}C$ (per leg)		
	I _{R2}	@V _R = 100V, Pulse,	4	mA
		T _J = 125 °C (per leg)		
Max. Junction Capacitance	CT	@V _R = 5V, T _C = 25 °C	250	pF
		f _{SIG} = 1MHz,		
		$V_{SIG} = 50 \text{mV} (p-p) (per leg)$		

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TECHNICAL DATA

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