TECHNICAL DATA DATA SHEET 5477, REV. -

HERMETIC SCHOTTKY RECTIFIER IN SMD-0.2 Very Low Forward Voltage Drop

Features:

- 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

Maximum Ratings

Characteristics	Symbol	Condition	Max.	Units
Peak Inverse Voltage	V_{RWM}	-	45	V
Max. Average Forward Current	I _{F(AV)}	50% duty cycle, rectangular wave form (Single)	10	Α
Max. Peak One Cycle Non- Repetitive Surge Current	I _{FSM}	8.3 ms, half Sine wave (per leg)	100	А
Maximum Thermal Resistance	$R_{ heta JC}$	-	6.4	°C/W
Max. Junction Temperature	T_J	-	-65 to +150	ô
Max. Storage Temperature	T _{stg}	-	-65 to +150	°C

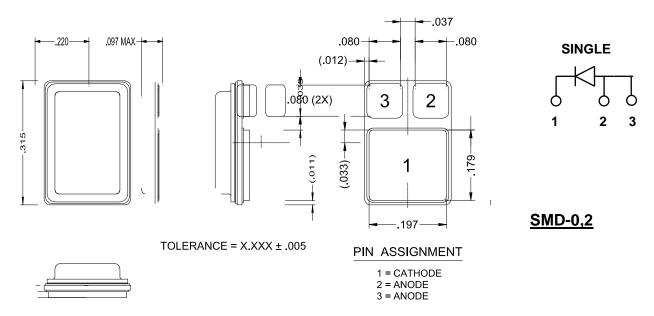
Electrical Characteristics

Characteristics	Symbol	Condition	Max.	Units
Max. Forward Voltage Drop	V_{F1}	@ 1A, Pulse, T _J = 25 °C	0.44	٧
	V_{F2}	@ 3A, Pulse, T _J = 25 °C	0.48	
	V_{F3}	@ 5A, Pulse, T _J = 25 °C	0.51	
	V_{F4}	@ 7A, Pulse, T ₁ = 25 °C	0.54	
	V_{F5}	@ 10A, Pulse, T _J = 25 °C	0.58	
(per leg)	V_{F6}	@ 1A, Pulse, T _J = 125 °C	0.30	V
	V_{F7}	@ 3A, Pulse, T _J = 125 °C	0.36	
	V_{F8}	@ 5A, Pulse, T _J = 125 °C	0.41	
	V_{F9}	@ 7A, Pulse, T _J = 125 °C	0.45	
	V_{F10}	@ 10A, Pulse, T _J = 125 °C	0.50	
	V_{F11}	@ 1A, Pulse, T _J = - 55 °C	0.54	V
	V_{F12}	@ 3A, Pulse, T _J = - 55 °C	0.58	
	V_{F13}	@ 5A, Pulse, T _J = - 55 °C	0.60	
	V _{F14}	@ 7A, Pulse, T _J = - 55 °C	0.63	
	V_{F15}	@ 10A, Pulse, T _J = - 55 °C	0.66	
Max. Reverse Current	I _{R1}	$@V_R = 45V$, Pulse, $T_J = 25 ^{\circ}C$	0.5	mΑ
(per leg)	I _{R2}	@V _R = 45V, Pulse, T _J = 125 °C	50	mA
Max. Junction Capacitance	C _T	$@V_R = 5V, T_C = 25 ^{\circ}C$	1100	pF
(per leg)		$f_{SIG} = 1MHz, V_{SIG} = 50mV (p-p)$		



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Mechanical Dimensions: in Inches / mm



PINOUT TABLE

DEVICE TYPE	PIN 1	PIN 2	PIN 3
SINGLE RECTIFIER	CATHODE	ANODE	ANODE

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