

TECHNICAL DATA
DATA SHEET 5478, 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

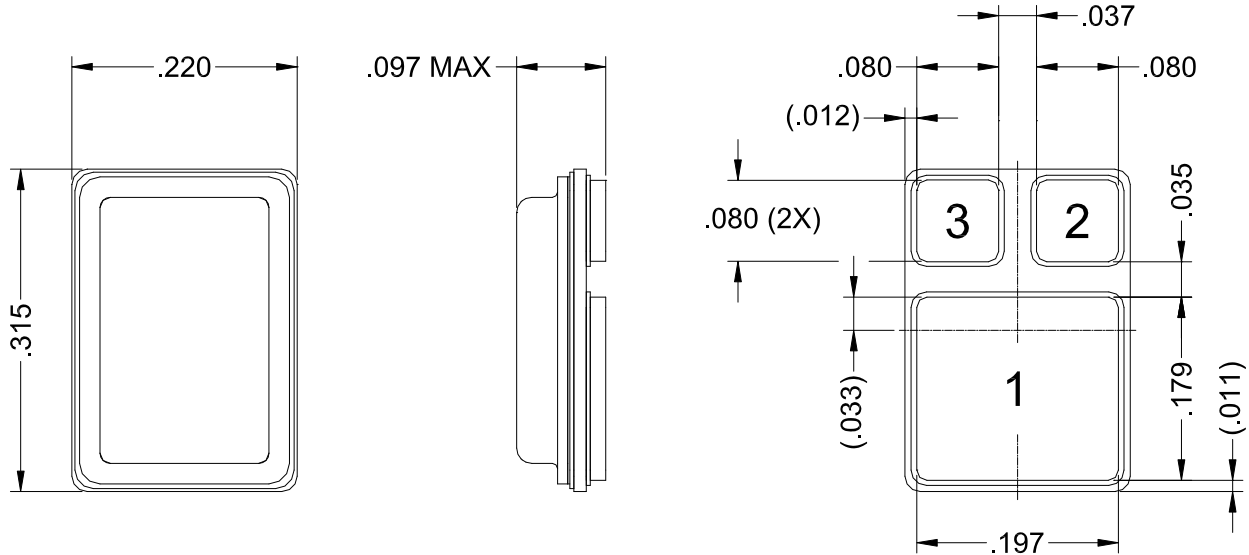
Characteristics	Symbol	Condition	Max.	Units
Peak Inverse Voltage	V_{RWM}	-	100	V
Max. Average Forward Current	$I_{F(AV)}$	50% duty cycle, rectangular wave form (Single)	10	A
Max. Peak One Cycle Non-Repetitive Surge Current	I_{FSM}	8.3 ms, half Sine wave (per leg)	100	A
Maximum Thermal Resistance	$R_{\theta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

Electrical Characteristics

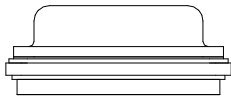
Characteristics	Symbol	Condition	Max.	Units
Max. Forward Voltage Drop (per leg)	V_{F1}	@ 1A, Pulse, $T_J = 25\text{ °C}$	0.48	V
	V_{F2}	@ 3A, Pulse, $T_J = 25\text{ °C}$	0.56	
	V_{F3}	@ 5A, Pulse, $T_J = 25\text{ °C}$	0.63	
	V_{F4}	@ 7A, Pulse, $T_J = 25\text{ °C}$	0.69	
	V_{F5}	@ 10A, Pulse, $T_J = 25\text{ °C}$	0.76	
	V_{F6}	@ 1A, Pulse, $T_J = 125\text{ °C}$	0.37	V
	V_{F7}	@ 3A, Pulse, $T_J = 125\text{ °C}$	0.47	
	V_{F8}	@ 5A, Pulse, $T_J = 125\text{ °C}$	0.54	
	V_{F9}	@ 7A, Pulse, $T_J = 125\text{ °C}$	0.59	
	V_{F10}	@ 10A, Pulse, $T_J = 125\text{ °C}$	0.66	
	V_{F11}	@ 1A, Pulse, $T_J = -55\text{ °C}$	0.57	V
	V_{F12}	@ 3A, Pulse, $T_J = -55\text{ °C}$	0.63	
	V_{F13}	@ 5A, Pulse, $T_J = -55\text{ °C}$	0.69	
	V_{F14}	@ 7A, Pulse, $T_J = -55\text{ °C}$	0.74	
	V_{F15}	@ 10A, Pulse, $T_J = -55\text{ °C}$	0.80	
Max. Reverse Current (per leg)	I_{R1}	@ $V_R = 100V$, Pulse, $T_J = 25\text{ °C}$	0.2	mA
	I_{R2}	@ $V_R = 100V$, Pulse, $T_J = 125\text{ °C}$	20	mA
Max. Junction Capacitance (per leg)	C_T	@ $V_R = 5V$, $T_C = 25\text{ °C}$ $f_{SIG} = 1MHz$, $V_{SIG} = 50mV$ (p-p)	600	pF

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Mechanical Dimensions: in Inches / mm



TOLERANCE = X.XXX ± .005

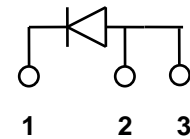


PIN ASSIGNMENT

- 1 = CATHODE
- 2 = ANODE
- 3 = ANODE

SMD-0,2

SINGLE



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