

TECHNICAL DATA DATA SHEET 4605, REV. -

HERMETIC SCHOTTKY RECTIFIER Low Forward Voltage Drop

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

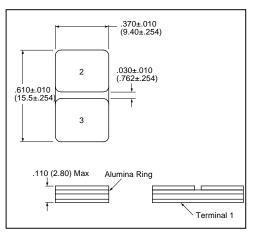
Characteristics	Symbol	Condition	Max.	Units
Peak Inverse Voltage	V_{RWM}	-	200	V
Max. Average Forward Current	I _{F(AV)}	50% duty cycle, rectangular wave form (Single)	60	Α
Max. Average Forward Current	I _{F(AV)}	50% duty cycle, rectangular wave form (Common Cathode)	120	Α
Max. Peak One Cycle Non- Repetitive Surge Current	I _{FSM}	8.3 ms, half Sine wave (per leg)	860	Α
Non-Repetitive Avalanche Energy	E _{AS}	$T_J = 25 ^{\circ}\text{C}, I_{AS} = 3.0 \text{A},$ L = 4.4 mH (per leg)	20	mJ
Repetitive Avalanche Current	I _{AR}	I_{AS} decay linearly to 0 in 1 μ s f limited by T_J max V_A =1.5 V_R	3.0	А
Maximum Thermal Resistance	$R_{ heta JC}$	DC operation	0.18	°C/W
Max. Junction Temperature	T_J	-	-65 to +200	°C
Max. Storage Temperature	T_{stg}	-	-65 to +200	°C

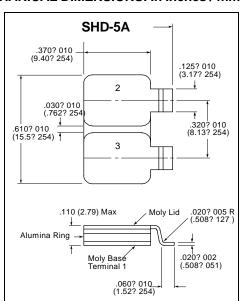
Electrical Characteristics

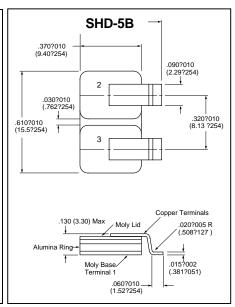
Characteristics	Symbol	Condition	Max.	Units
Max. Forward Voltage Drop	V _{F1}	@ 60A, Pulse, T _J = 25 °C	0.95	V
(per leg)	V_{F2}	@ 60A, Pulse, T _J = 125 °C	0.79	V
Max. Reverse Current	I _{R1}	@V _R = 200V, Pulse,	1.1	mA
		T _J = 25 °C		
(per leg)	I _{R2}	$@V_R = 200V, Pulse,$	24	mA
		T _J = 125 °C		
Max. Junction Capacitance	C _T	$@V_R = 5V, T_C = 25 ^{\circ}C$	900	pF
(per leg)		$f_{SIG} = 1MHz,$		
		$V_{SIG} = 50 \text{mV (p-p)}$		

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MECHANICAL DIMENSIONS: In Inches / mm



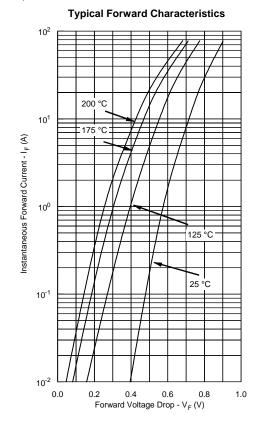




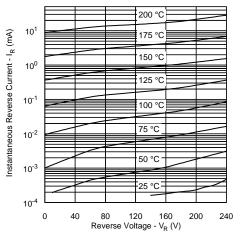
1 2 3
PINOUT TABLE

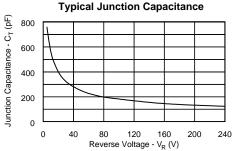
DEVICE TYPEPIN 1PIN 2PIN 3DUAL RECTIFIER, COMMON CATHODE (P)COMMON CATHODEANODEANODE

Note: The V_f curves shown are for the SD200SC200 unpackaged die only.



Typical Reverse Characteristics







TECHNICAL DATA

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