TECHNICAL DATA
DATA SHEET 326, Rev. -

ULTRA LOW REVERSE LEAKAGE POWER SCHOTTKY RECTIFIER Very Low Forward Voltage Drop

Applications:

- **Switching Power Supply • Converters • Free-Wheeling Diodes • Polarity Protection Diode**

Features:

- **Ultra 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**
- **Electrically / Mechanically Stable during and after Packaging**
- **Out Performs 100 Volt Ultrafast Rectifiers**

Maximum Ratings:

Characteristics	Symbol	Condition	Max.	Units
Peak Inverse Voltage	V_{RWM}	-	100	V
Max. Average Forward Current	$I_{F(AV)}$	50% duty cycle @T_C =100°C, rectangular wave form	3.0	A
Max. Peak One Cycle Non-Repetitive Surge Current	I_{FSM}	8.3 ms, half Sine pulse	55	A
Max. Junction Temperature	T_J	-	-65 to +200	°C
Max. Storage Temperature	T_{stg}	-	-65 to +175	°C

Electrical Characteristics:

Characteristics	Symbol	Condition	Max.	Units
Max. Forward Voltage Drop	V_{F1}	@ 3 A, Pulse, T_J = 25 °C	0.89	V
	V_{F2}	@ 3 A, Pulse, T_J = 125 °C	0.73	V
Max. Reverse Current	I_{R1}	@V_R = 100V, Pulse, T_J = 25 °C	5	µA
	I_{R2}	@V_R = 100V, Pulse, T_J = 125 °C	0.25	mA
Max. Junction Capacitance	C_T	@V_R = 5V, T_C = 25 °C f_{SIG} = 1MHz, V_{SIG} = 50mV (p-p)	100	pF
Maximum Thermal Resis.	$R_{\theta JC}$	-	10	°C/W

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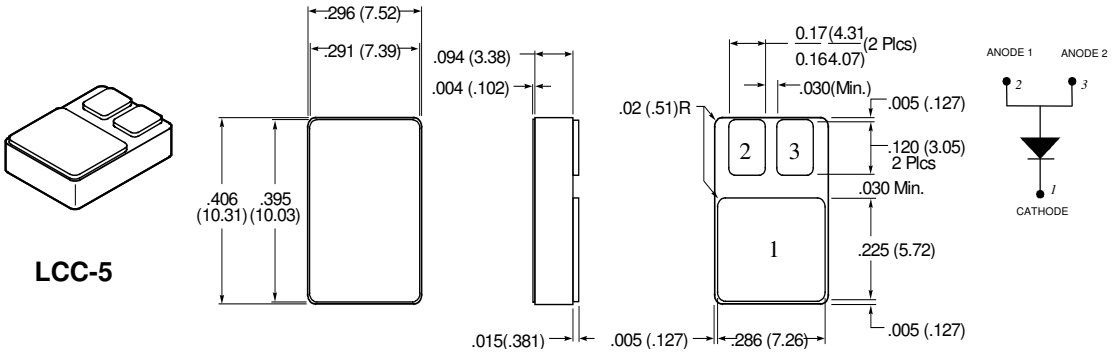
Mechanical Dimensions: In Inches / mm



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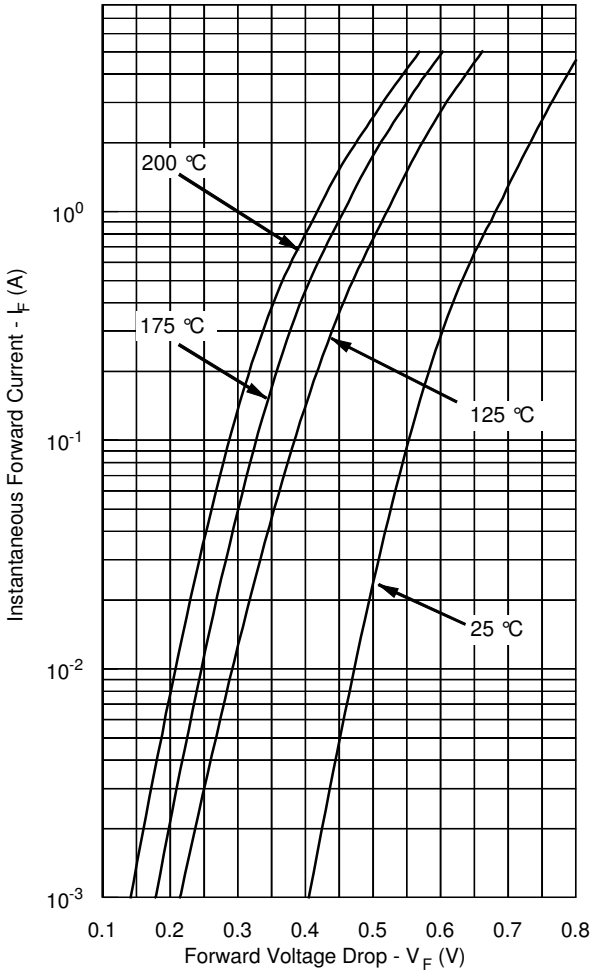
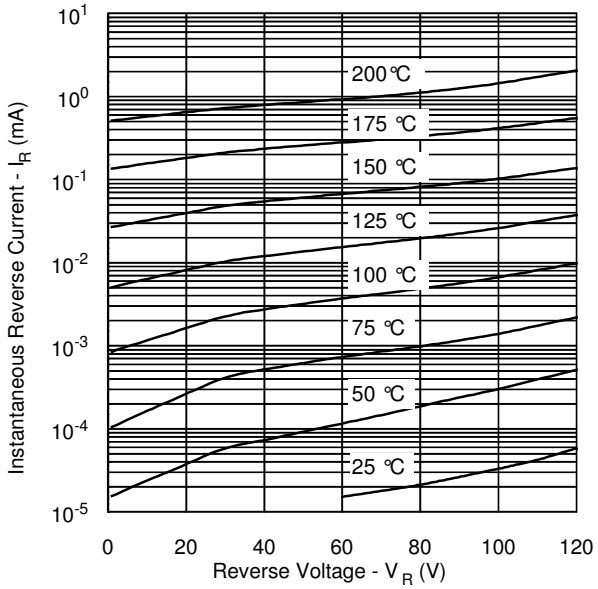
NOTE: The V_F curves are for SD060SCU100 chip only.

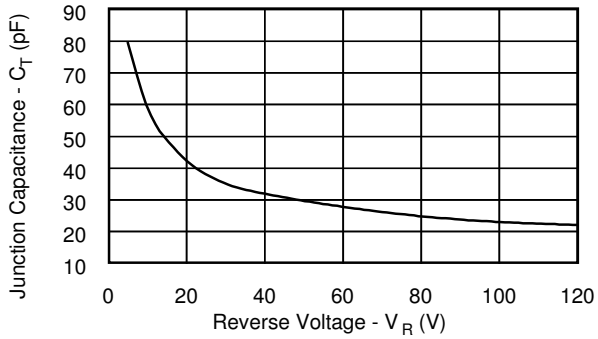
Typical Forward Characteristics



Typical Reverse Characteristics



Typical Junction Capacitance



TECHNICAL DATA

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