TECHNICAL DATA
DATASHEET 4755, REV. C

SILICON SCHOTTKY RECTIFIER
Ultra Low Reverse Leakage
175°C Operating Temperature

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**
- **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	$I_{F(AV)}$	Maximum DC Output Current (@ T_C=100 ^{O}C) (Single, Doubler)	7.5	A
Max. Average Forward Current	$I_{F(AV)}$	Maximum DC Output Current (@ T_C=100 ^{O}C) (Common Cathode, Common Anode)	15	A
Max. Peak One Cycle Non-Repetitive Surge Current	I_{FSM}	8.3 ms, half Sine wave	75	A
Maximun Thermal Resistence (Per leg)	$R_{\theta JC}$	-	5.37	°C/W
Max. Junction Temperature	T_J	-	-65 to +175	°C
Max. Storage Temperature	T_{stg}	-	-65 to +175	°C

Electrical Characteristics Per Leg:

Characteristics	Symbol	Condition	Max.	Units
Max. Forward Voltage Drop	V_{F1}	@ 7.5 A, Pulse, T_J = 25 °C	0.93	V
	V_{F2}	@ 7.5 A, Pulse, T_J = 125 °C	0.77	V
Max. Reverse Current	I_{R1}	@V_R = 100 V, Pulse, T_J = 25 °C	0.18	mA
	I_{R2}	@V_R = 100 V, Pulse, T_J = 125 °C	4	mA
Max. Junction Capacitance	C_T	@V_R = 5V, T_C = 25 °C f_{SIG} = 1MHz, V_{SIG} = 50mV (p-p)	250	pF

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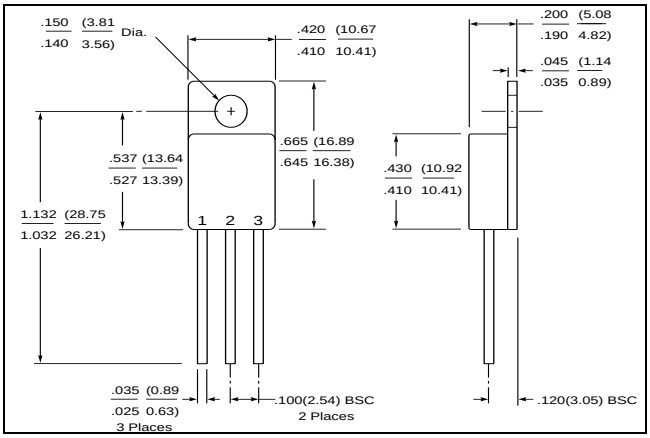
Mechanical Dimensions: In Inches / mm



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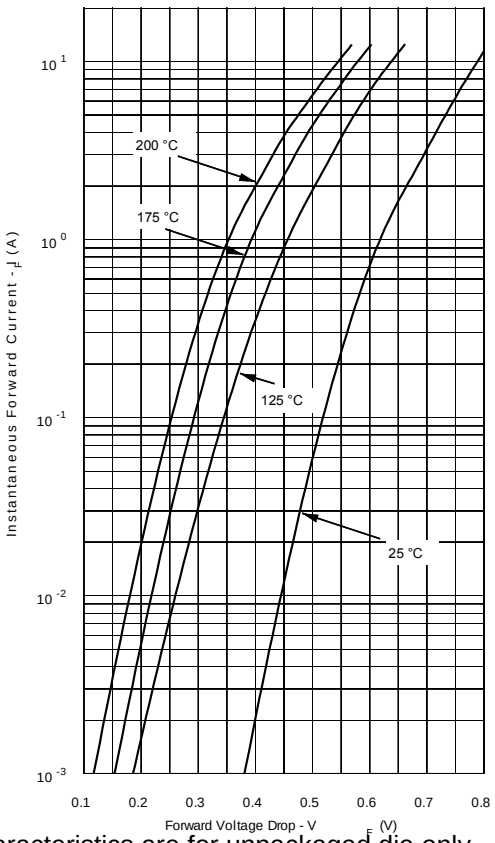
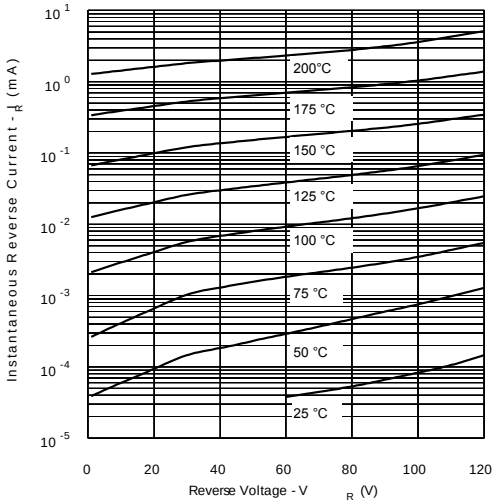
DEVICE TYPE	PIN 1	PIN 2	PIN 3
SINGLE RECTIFIER	CATHODE	ANODE	ANODE
COMMON CATHODE (P)	ANODE 1	COMMON CATHODE	ANODE 2
COMMON ANODE (N)	CATHODE 1	COMMON ANODE	CATHODE 2
DOUBLER (D)	ANODE	CATHODE / ANODE	CATHODE

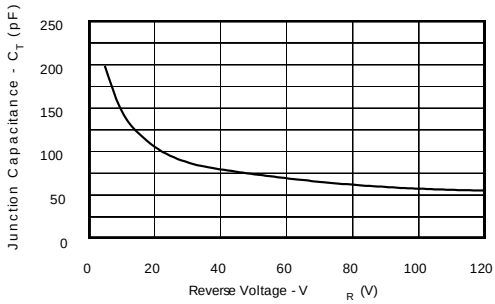
Typical Forward Characteristics



Typical Reverse Characteristics



Typical Junction Capacitance



Note: Vf characteristics are for unpackaged die only.

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