



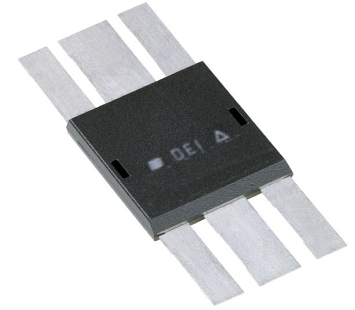
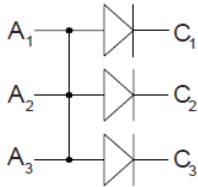
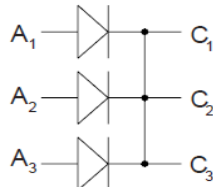
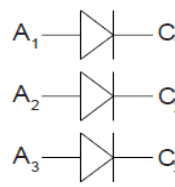
**THE DATASHEET OF  
SS150TC60110**



# Silicon Carbide Schottky Diode

**V<sub>RRM</sub> = 600 V**
**I<sub>F(AVG)</sub> = 10 A**
**C<sub>J</sub> = 120 pF**

Part Number	V <sub>RRM</sub> (V)	I <sub>F(AVG)</sub> (A)	Configuration
SS150TA60110	600	10	Triple Common Anode
SS150TC60110	600	10	Triple Common Cathode
SS150TI60110	600	10	Triple Independent


**Triple Anode (TA)**

**Triple Cathode (TC)**

**Triple Independent (TI)**


A = Anode C = Cathode

Symbol	Parameter per diode	Test Conditions	Maximum Ratings
V <sub>RRM</sub>	Repetitive Peak Reverse Voltage		600 V
V <sub>RSM</sub>	Repetitive Surge Reverse Voltage		600 V
V <sub>DC</sub>	DC Blocking Voltage		600 V
I <sub>F(AVG)</sub>	Average Forward Current	T <sub>J</sub> = 175°C	10 A
I <sub>FRM</sub>	Repetitive Peak Forward Surge Current	T <sub>C</sub> = 25°C, t <sub>p</sub> = 10 ms Half Sine Wave	67 A
I <sub>FSM</sub>	Non-Repetitive Peak Forward Surge Current	T <sub>C</sub> = 25°C, t <sub>p</sub> = 10 μs Pulse	250 A
T <sub>VJ</sub>	Operating Virtual Junction Temperature		-55 to +175 °C
T <sub>STG</sub>	Storage Temperature		-55 to +175 °C
P <sub>TOT</sub>	T <sub>C</sub> = 25 °C (30 W/ per diode)		90 W

**Features**

- 600 V SiC Schottky Diode
- Surface Mount Package
- Zero Reverse Recovery
- Zero Forward Recovery
- High Frequency Operation
- Temperature Independent Behavior
- Positive Temperature Coefficient for V<sub>F</sub>

**Applications**

- MHz Switch Mode Power Supplies
- High Frequency Converters
- Resonant Converters
- Rectifier Circuits

Symbol	Parameter	Test Conditions	Characteristic Values		
			Typ.	Max.	Units
T <sub>J</sub> = 25°C unless otherwise specified					
V <sub>F</sub>	Forward Voltage	I <sub>F</sub> = 5 A, T <sub>J</sub> = 25°C T <sub>J</sub> = 175°C	1.7 2.2	2 2.5	V
I <sub>R</sub>	Reverse Current	V <sub>R</sub> = 600 V, T <sub>J</sub> = 25°C T <sub>J</sub> = 175°C	10 20	50 200	μA
C <sub>J</sub>	Junction Capacitance	f = 1 MHz, V <sub>R</sub> = 0 V V <sub>R</sub> = 200 V V <sub>R</sub> = 600 V	600 130 120		pF
Q <sub>C</sub>	Capacitive Charge	V <sub>R</sub> = 600 V	72		nC
R <sub>THJC</sub>	Thermal Resistance		1.7		°C/W
T <sub>L</sub>	Lead Soldering Temperature	1.6 mm (0.063 in) from case for 10 s	300		°C
<b>Isolation</b>	Pin to Substrate Pin to Pin		>1800 >1500		V <sub>RMS</sub>
<b>Weight</b>			2		g

Fig. 1

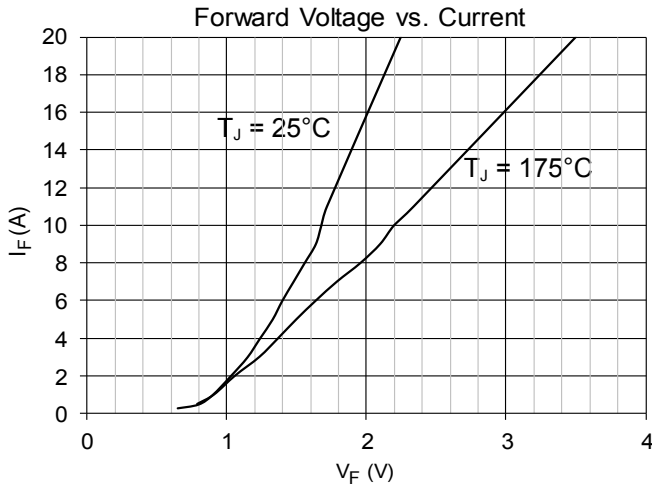


Fig. 2

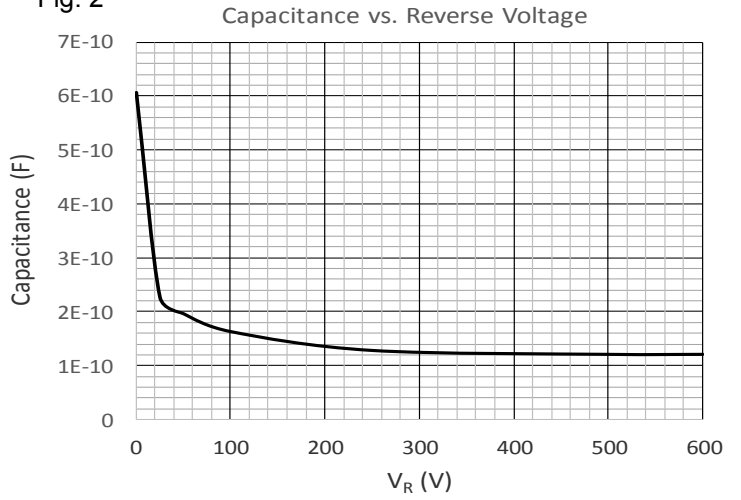


Fig. 3

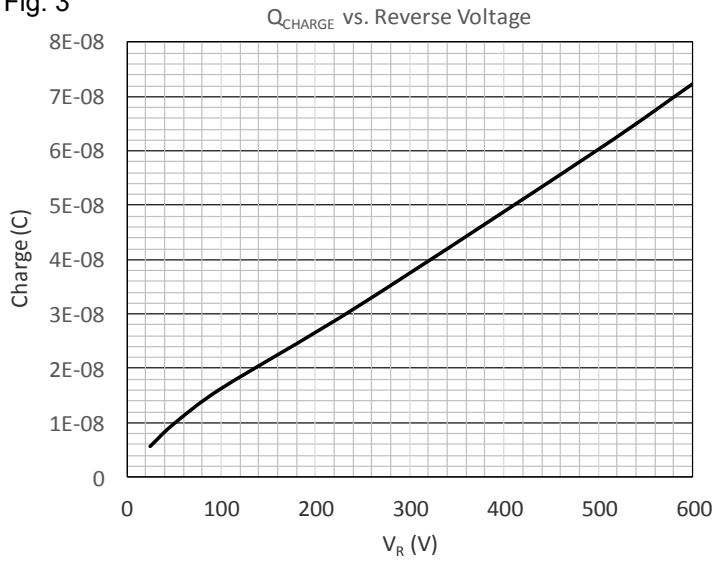


Fig. 4

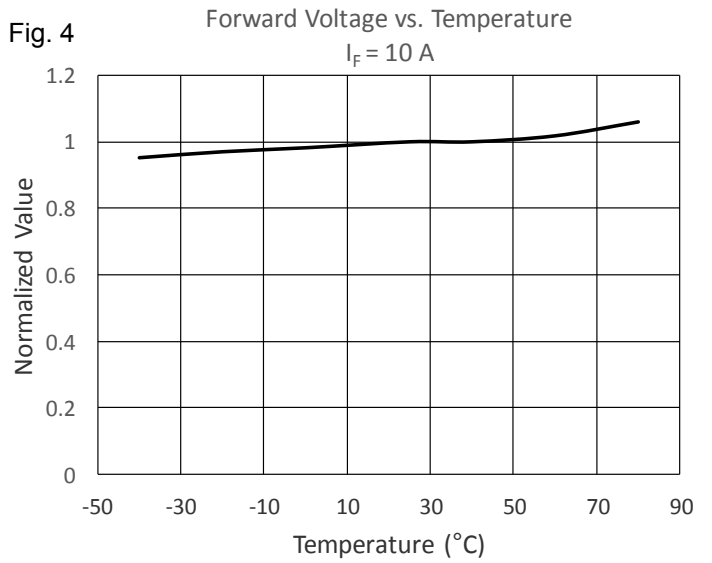


Fig. 5

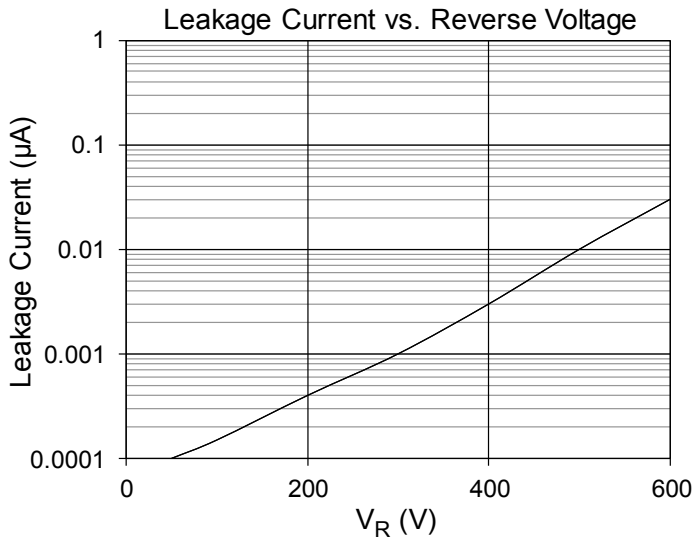


Fig. 6

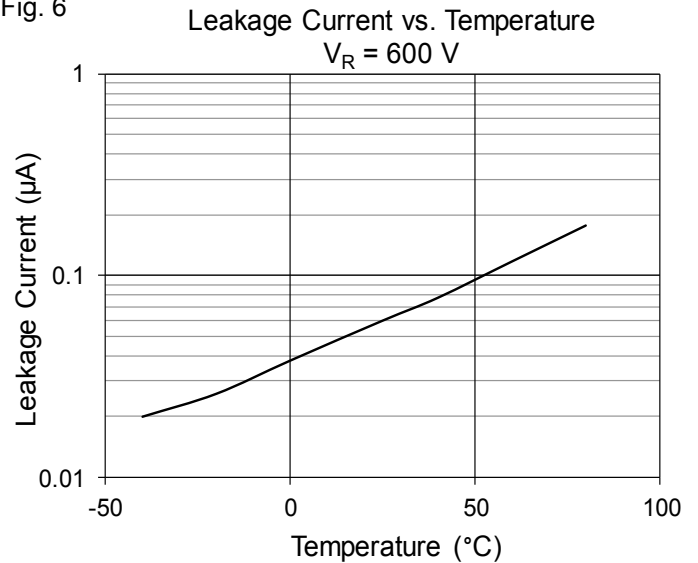
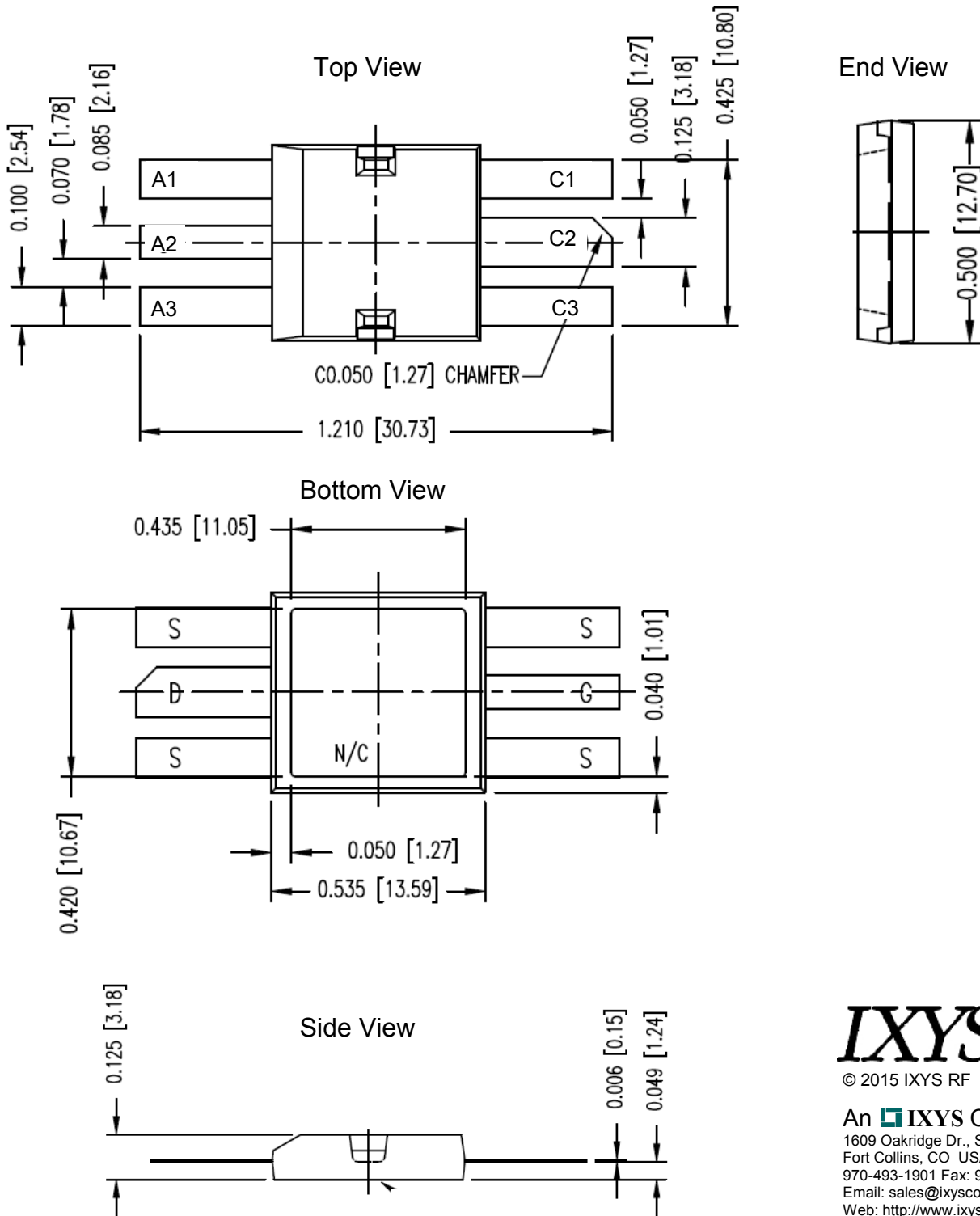


Fig. 7 Package Diagram



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