



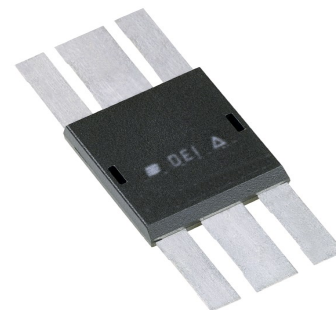
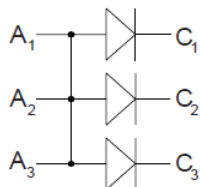
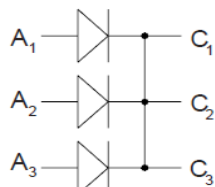
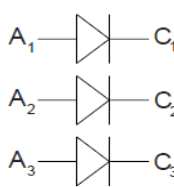
**THE DATASHEET OF
SS150TI60110**



Silicon Carbide Schottky Diode

 $V_{RRM} = 600\text{ V}$
 $I_{F(AVG)} = 10\text{ A}$
 $C_J = 120\text{ pF}$

Part Number	V_{RRM} (V)	$I_{F(AVG)}$ (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	Features
V_{RRM}	Repetitive Peak Reverse Voltage		600 V	<ul style="list-style-type: none"> 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_F
V_{RSM}	Repetitive Surge Reverse Voltage		600 V	
V_{DC}	DC Blocking Voltage		600 V	
$I_{F(AVG)}$	Average Forward Current	$T_J = 175^\circ\text{C}$	10 A	
I_{FRM}	Repetitive Peak Forward Surge Current	$T_C = 25^\circ\text{C}$, $t_p = 10\text{ ms}$ Half Sine Wave	67 A	
I_{FSM}	Non-Repetitive Peak Forward Surge Current	$T_C = 25^\circ\text{C}$, $t_p = 10\ \mu\text{s}$ Pulse	250 A	
T_{VJ}	Operating Virtual Junction Temperature		-55 to +175 °C	
T_{STG}	Storage Temperature		-55 to +175 °C	
P_{TOT}	$T_C = 25^\circ\text{C}$ (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_F

Applications

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

Symbol	Parameter	Test Conditions	Characteristic Values		
$T_J = 25^\circ\text{C}$ unless otherwise specified			Typ.	Max.	Units
V_F	Forward Voltage	$I_F = 5\text{ A}$, $T_J = 25^\circ\text{C}$ $T_J = 175^\circ\text{C}$	1.7 2.2	2 2.5	V
I_R	Reverse Current	$V_R = 600\text{ V}$, $T_J = 25^\circ\text{C}$ $T_J = 175^\circ\text{C}$	10 20	50 200	μA
C_J	Junction Capacitance	$f = 1\text{ MHz}$, $V_R = 0\text{ V}$ $V_R = 200\text{ V}$ $V_R = 600\text{ V}$	600 130 120		pF
Q_C	Capacitive Charge	$V_R = 600\text{ V}$	72		nC
R_{THJC}	Thermal Resistance		1.7		$^\circ\text{C}/\text{W}$
T_L	Lead Soldering Temperature	1.6 mm (0.063 in) from case for 10 s	300		$^\circ\text{C}$
Isolation	Pin to Substrate Pin to Pin		>1800 >1500		V_{RMS}
Weight			2		g

Fig. 1

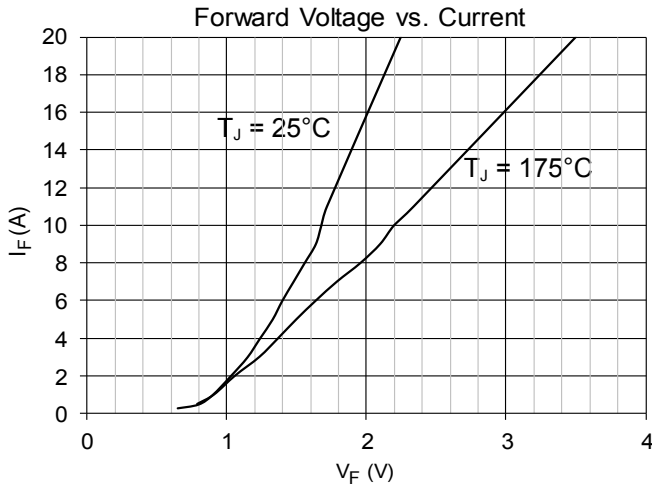


Fig. 2

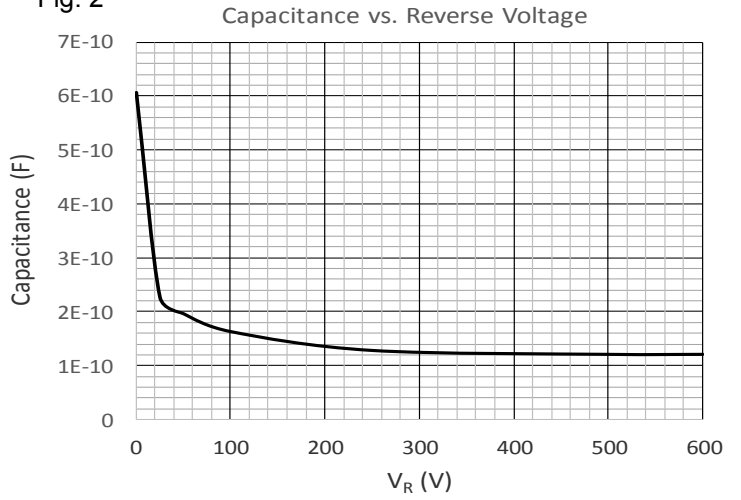


Fig. 3

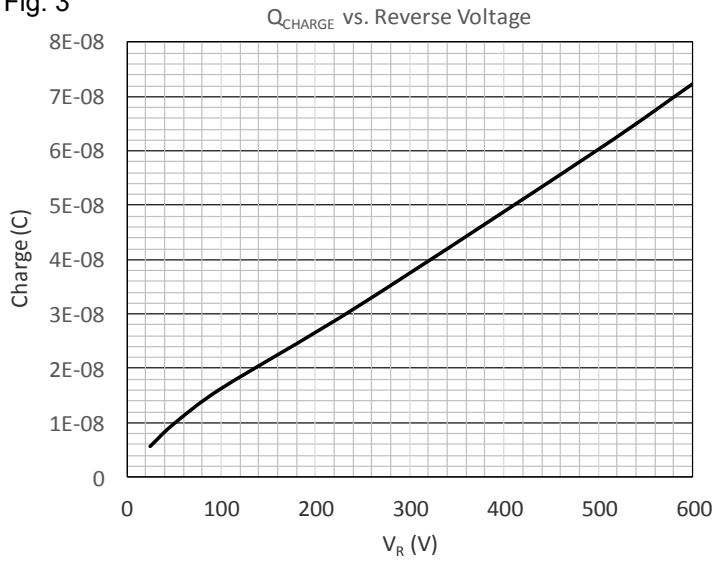


Fig. 4

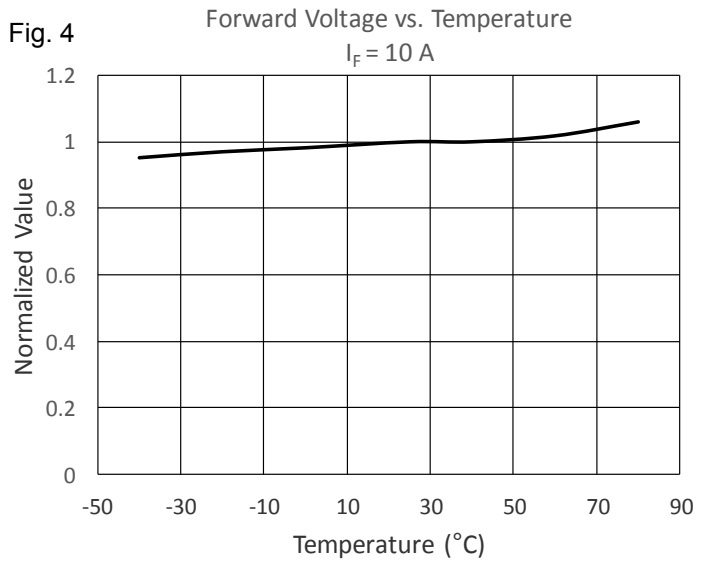


Fig. 5

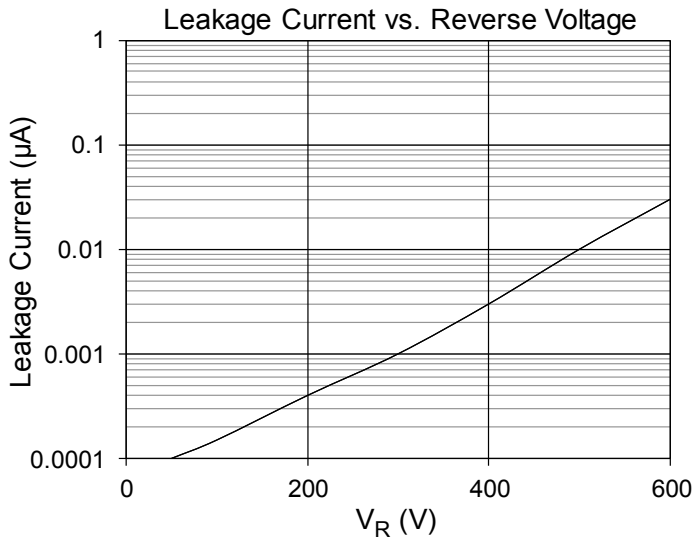


Fig. 6

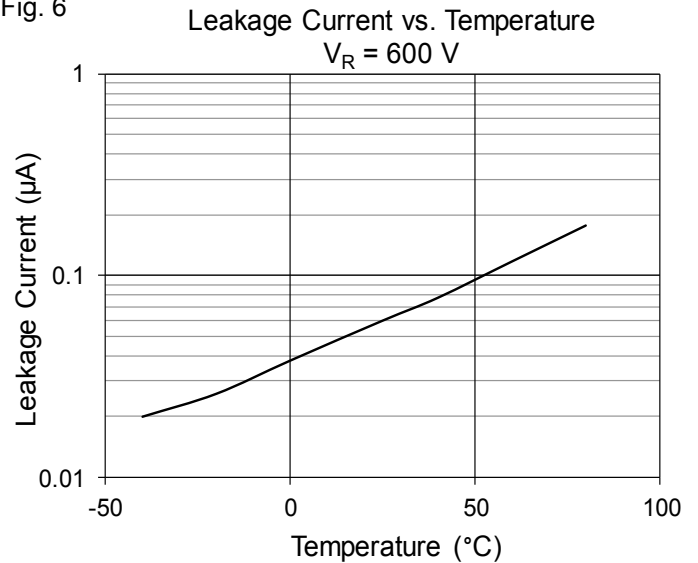
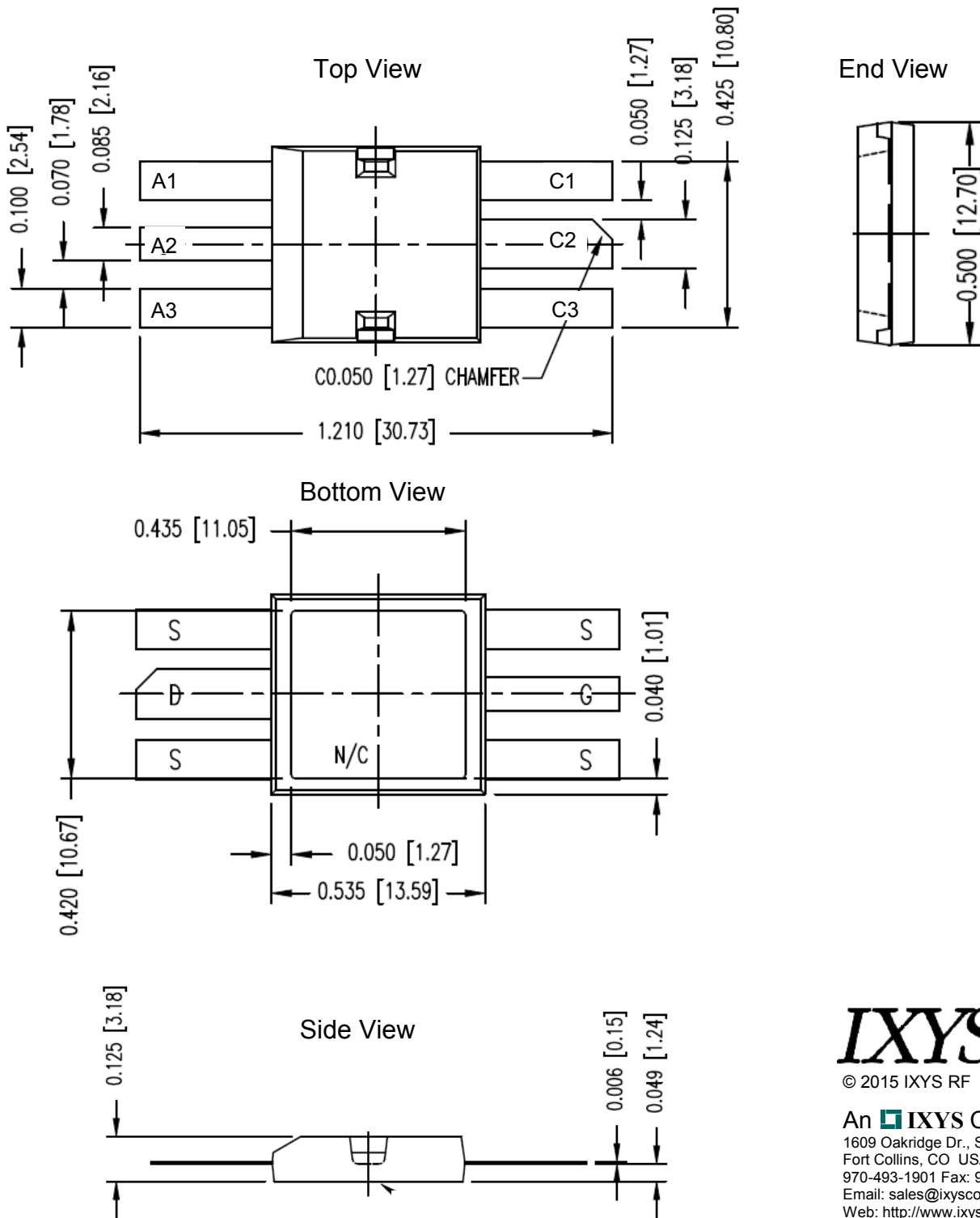


Fig. 7 Package Diagram



DCB – Direct Copper Bond under Nickel plate on an Aluminum Nitride substrate, electrically isolated from any pin.

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