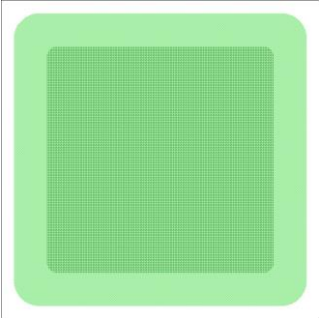


SiC Silicon-Carbide**1200V 5A Schottky Diode**

Bonding Pad Information	Chip Information	
	Die Size (With Scribe Line)	1,790μm x 1,790μm
	Anode Pad Size	1,240μm x 1,240μm
	Scribe Line Size	100μm
	Wafer Size	4inchs
	Wafer Thickness	160μm
	Gross Die	2,040ea
	Metallization	Front Side: Al/Cu : 4.0μm Back Side: Ti/Ni/Ag : 2.0μm

Maximum Ratings (T_c=25°C unless otherwise noted)

Parameter	Symbol	Value	Unit
Repetitive Peak Reverse Voltage	V _{RRM}	1200	V
Surge Peak Reverse Voltage	V _{RSM}	1200	V
DC Current @ T _J =150°C	I _F	5	A
Operating Junction and Storage Temperature Range	T _J	-55 to 175	°C

Electrical Characteristics (T_A=25°C unless otherwise noted)

Parameter	Symbol	Conditions	Min.	Typ.	Max.	Unit
DC Blocking Voltage	V _R	I _R =100uA, T _J =25°C	1200	-	-	V
Forward Voltage	V _F	I _F =5A, T _J =25°C	-	1.4	1.8	V
		I _F =5A, T _J =150°C	-	1.8	2.2	
		I _F =5A, T _J =175°C	-	1.9	2.4	
Reverse Current	I _R	V _R =1200V, T _J =25°C	-	1	50	μA
		V _R =1200V, T _J =150°C	-	10	100	
		V _R =1200V, T _J =175°C	-	15	200	
Total Capacitive Charge	Q _C	V _R =800V, T _J =25°C $Q_C = \int_0^{V_R} C(V)dV$	-	24	-	nC
Total Capacitance	C _j	V _R =800V, f=1MHz	-	19	-	pF