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YJD112020BXGG2

Silicon Carbide Schottky Diode

Features

Positive temperature coefficient
Temperature-independent switching
Maximum working temperature at 175 °C
Unipolar devices and zero reverse recovery current
Zero forward recovery current
Essentially no switching losses
Reduction of heat sink requirements
High-frequency operation
Reduction of EMI

Typical Applications

Typical applications are in power factor correction(PFC), solar inverter, uninterruptible power supply, motor drives, photovoltaic inverter, electric car and charger.

Mechanical Data

Package: TO-263

Terminals: Tin plated leads Polarity: As marked

Maximum Ratings (T_C=25 Unless otherwise specified

PARAMTETER SYMBOL UNIT



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Electrical Characteristics

PARAMTETER	SYMBOL	UNIT	TEST CONDITIONS	Тур.	Max.
Forward voltage drop	V _F	>	I _F =20A, T _j =25°C	1.34	1.55
			I _F =20A, T _j =175°C	1.86	2.70
Reverse leakage current	I _R	μА	V _R =1200V, T _j =25°C	0.5	25
			V _R =1200V, T _j =175°C	5	-
Total capacitive charge	Q _C	nC	$V_R=800V, T_j=25^{\circ}C, QC={_0}^{VR}C(V)dV$	114	
Total capacitance	С	pF	V _R =0V, f=1MHZ	1552	-
			V _R =400V, f=1MHZ	107	-
			V _R =800V, f=1MHZ	79	-
Capacitance Stored Energy	Ec	μJ	V _R =800V	29.3	-

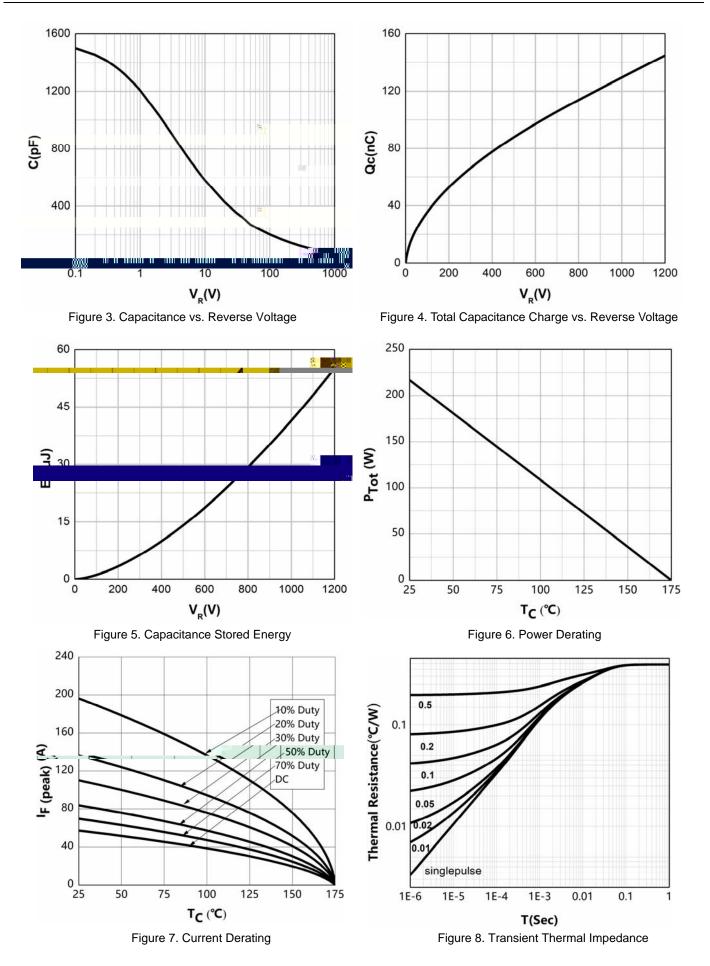
Thermal Characteristics T_a=25 Unless otherwise specified

PARAMETER	SYMBOL	UNIT	VALUE
Thermal resistance	R _{J-C}	°C W	0.7

Characteristics (Typical)

Figure 1. F

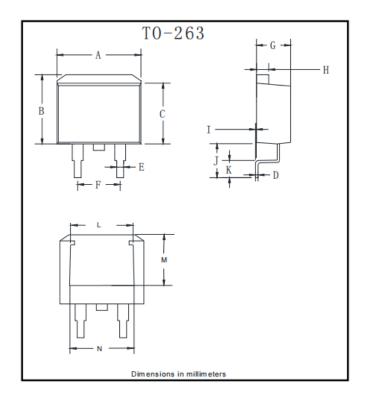






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Outline Dimensions



	TO-263	
ੇi Min ੇ	Max i	l J Dim
9.5	11.5	Α
9.7	10.5	В
8.4	9.0	С
0.28	0.64	D
0.68	0.94	E
4.55	5.6	F
4.04	5.10	G
1.14	1.4	Н
0	0.2	- 1
4.9	6.05	J
1.79	2.79	K
7.3	7.9	L
6.2	6.8	M
7.6	8.2	N



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