

BRSC06650DP

Rev.A Aug.-2024

/ Descriptions

TO-252 SiC
SiC Schottky Barrier Diode in a TO-252 Plastic Package.

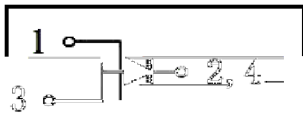
/ Features

Low power loss, high efficiency, HF Product.

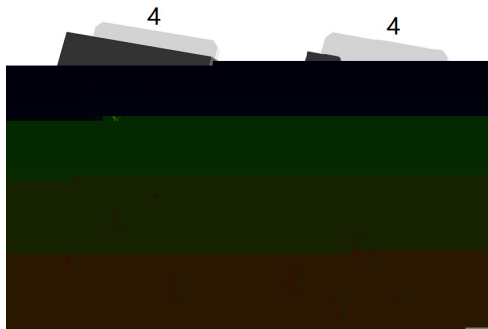
/ Applications

For high frequency, high voltage, high current rectifier diode, freewheeling diode

/ Equivalent Circuit



/ Pinning



PIN1 3 Anode PIN 2 4 Cathode

/ Marking

See Marking Instructions.

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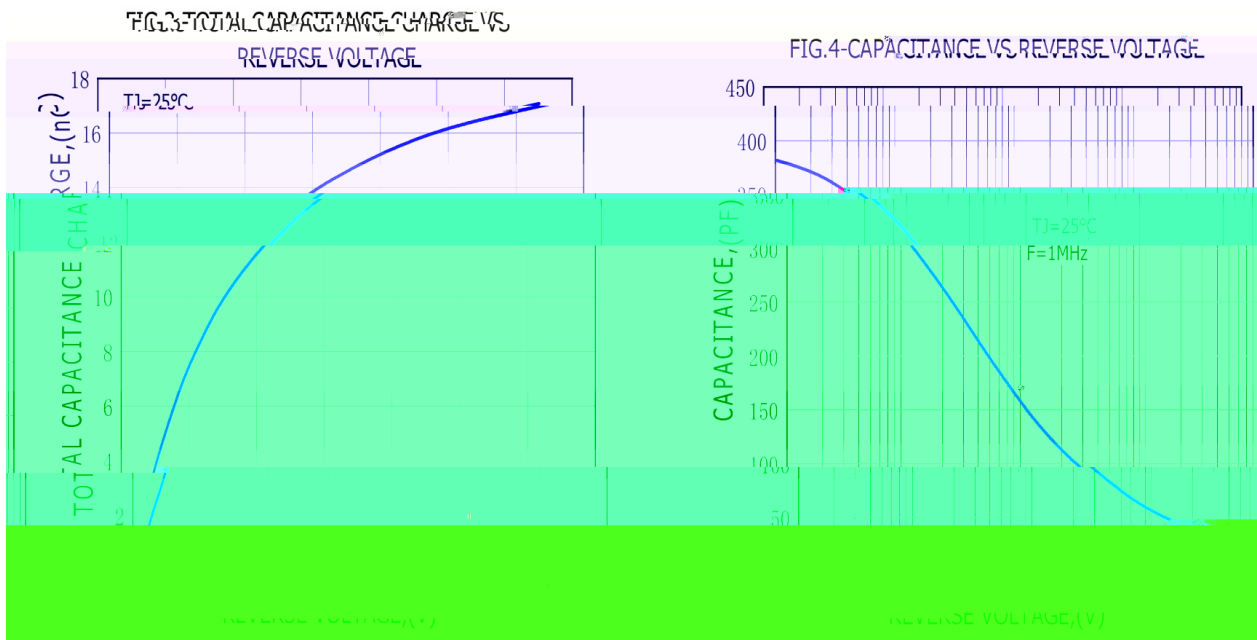
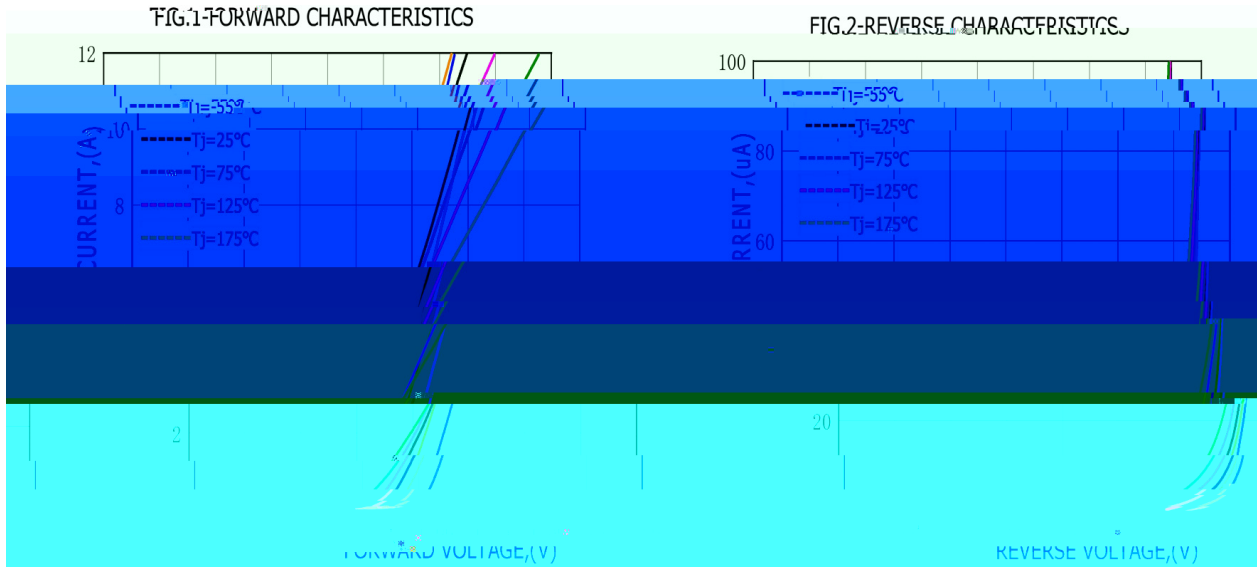


DATA SHEET

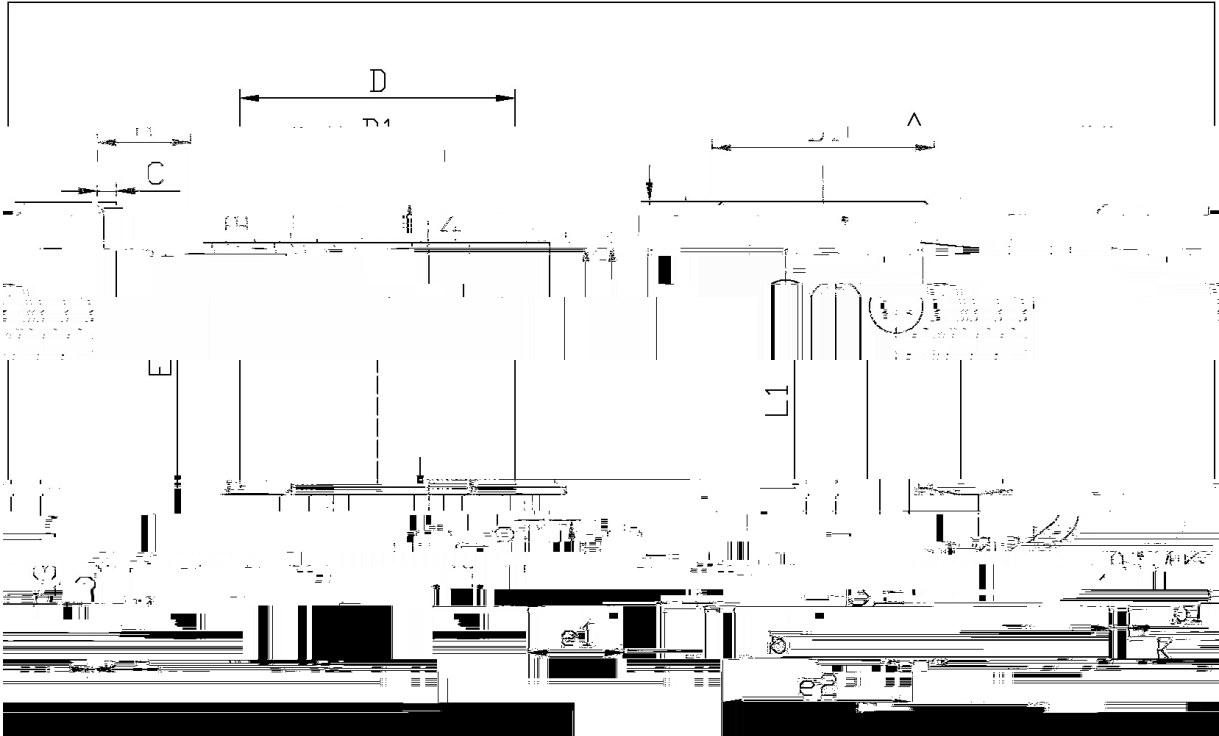
Parameter	Symbol	Rating	Unit
Peak Repetitive Reverse Voltage	V_{RRM}	650	V
Maximum RMS Voltage	V_{RMS}	455	V
Maximum DC blocking Voltage	V_{DC}	650	V
Continuous Forward Current, $T_C=150$	I_F	6	A
Peak forward surge current, $t_p=8.3ms$	I_{FSM}	52	A
Total power dissipation	P_D	53	W
Typical Thermal Resistance Junction to Case	R _{JC}	2.8	/W
Operation Junction Temperature and Storage Temperature	T_J, T_{STG}	-55~+175	

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
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/ **Electrical Characteristic Curve**



/ Package Dimensions



单位: mm

Symbol	Min	Max	Symbol	Min
A	2.30	2.40	F	5.95
B	0.50	0.53	G	4.75
C	0.45	0.55	H	9.95
D	5.16	5.50	I	0.00
E	0.66	0.69	J	0.35
K	0.66	0.69	L	0.35
M	0.66	0.69	N	0.35
O	0.66	0.69	P	0.35
Q	0.66	0.69	R	0.35
S	0.66	0.69	T	0.35
U	0.66	0.69	V	0.35
W	0.66	0.69	X	0.35
Y	0.66	0.69	Z	0.35
e1	0.10	0.15	e2	0.10

02-252

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