

# BRSC06650DP

Rev.A Aug.-2024

## / Descriptions

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

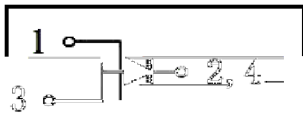
## / Features

Low power loss, high efficiency, HF Product.

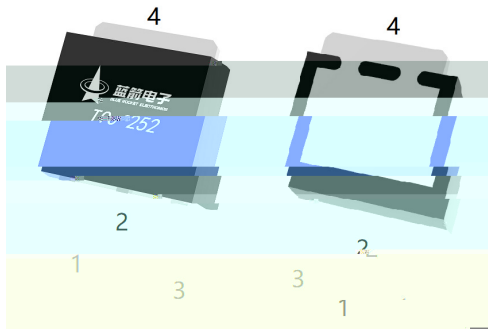
## / Applications

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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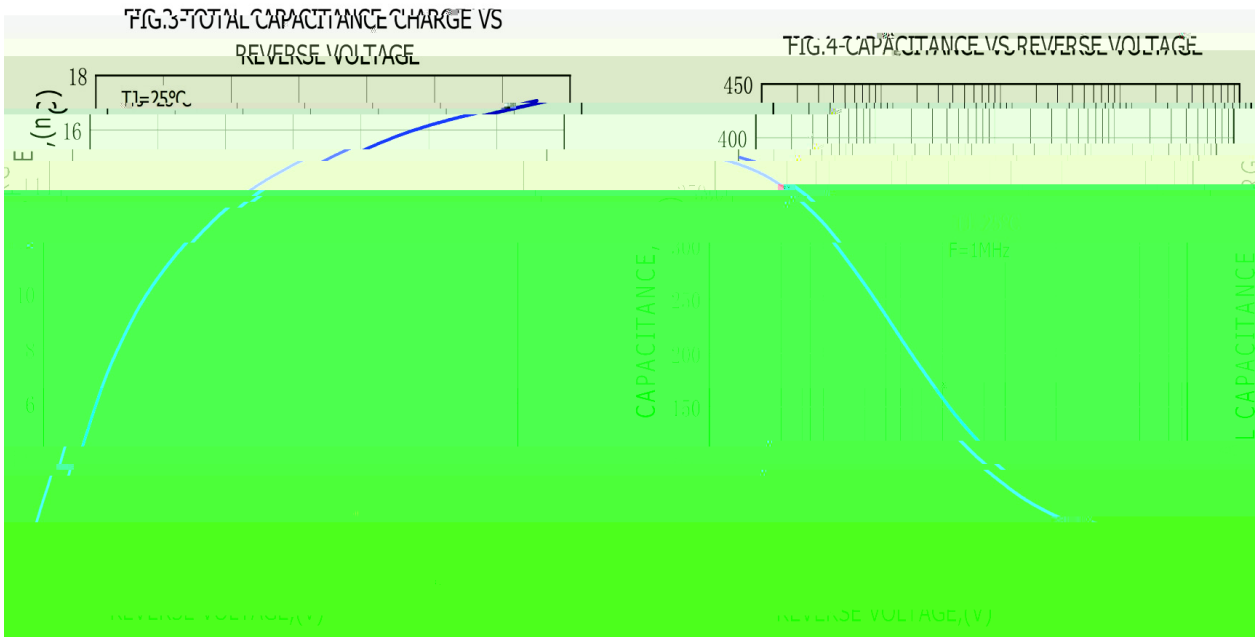
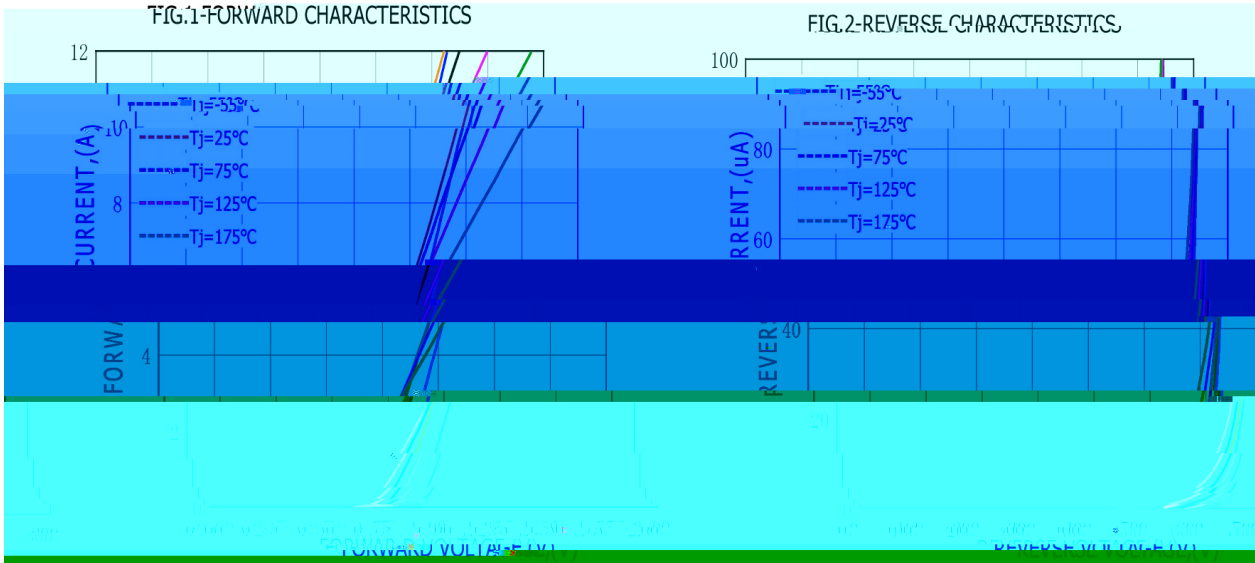


DATA SHEET

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 <sub>JC</sub>	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	0.55	G	4.43
C	0.45	0.55	H	9.45
D	5.16	5.50	I	0.00
E	0.66	0.80	J	0.35
K	0.66	0.80	L	0.35
M	0.66	0.80	N	0.35
O	0.66	0.80	P	0.35
Q	0.66	0.80	R	0.35
S	0.66	0.80	T	0.35
U	0.66	0.80	V	0.35
W	0.66	0.80	X	0.35
X	0.66	0.80	Y	0.35
Y	0.66	0.80	Z	0.35

02-252

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