

/ Descriptions

PDFN5×6 SiC

SiC Schottky Barrier Diode in a PDFN5×6 Plastic Package.

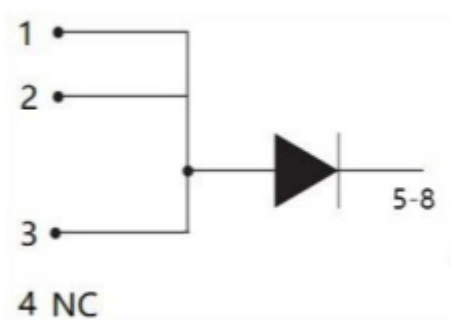
/ Features

Low power loss, high efficiency, HF Product.

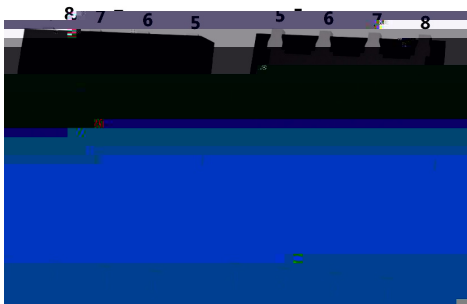
/ Applications

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

/ Equivalent Circuit



/ Pinning



PIN 1,2,3 Anode PIN5-8 Cathode PIN 4 NC

/ Marking

See Marking Instructions.

BRSC04650ZC

Rev.A Jun.-2024

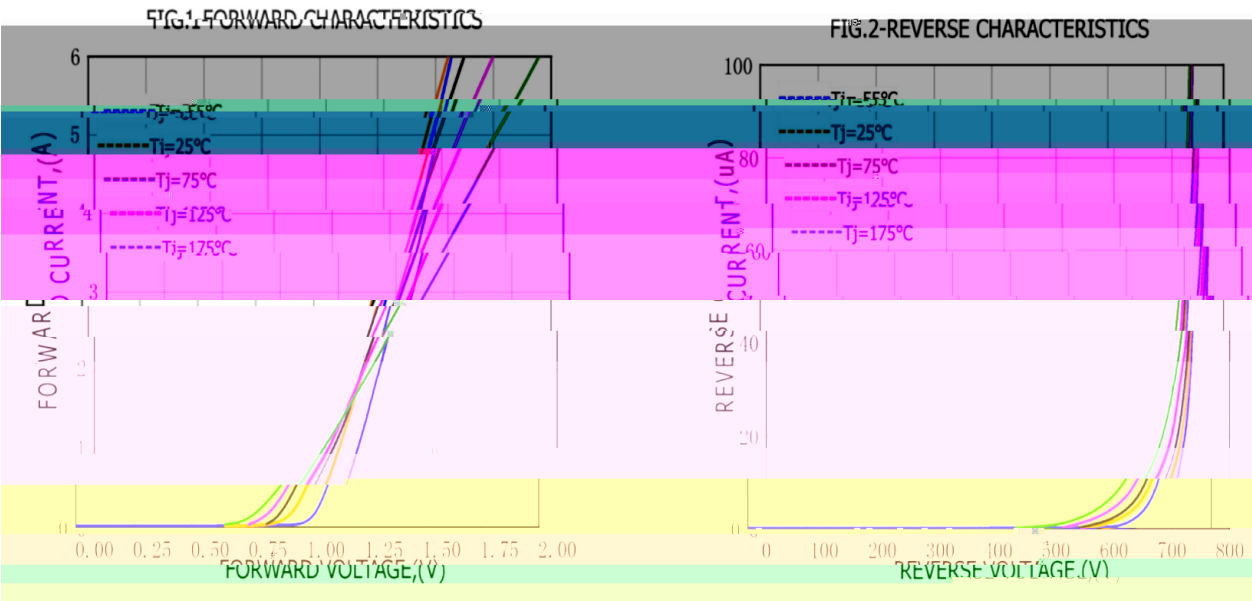


蓝箭电子
BLUE ROCKET ELECTRONICS

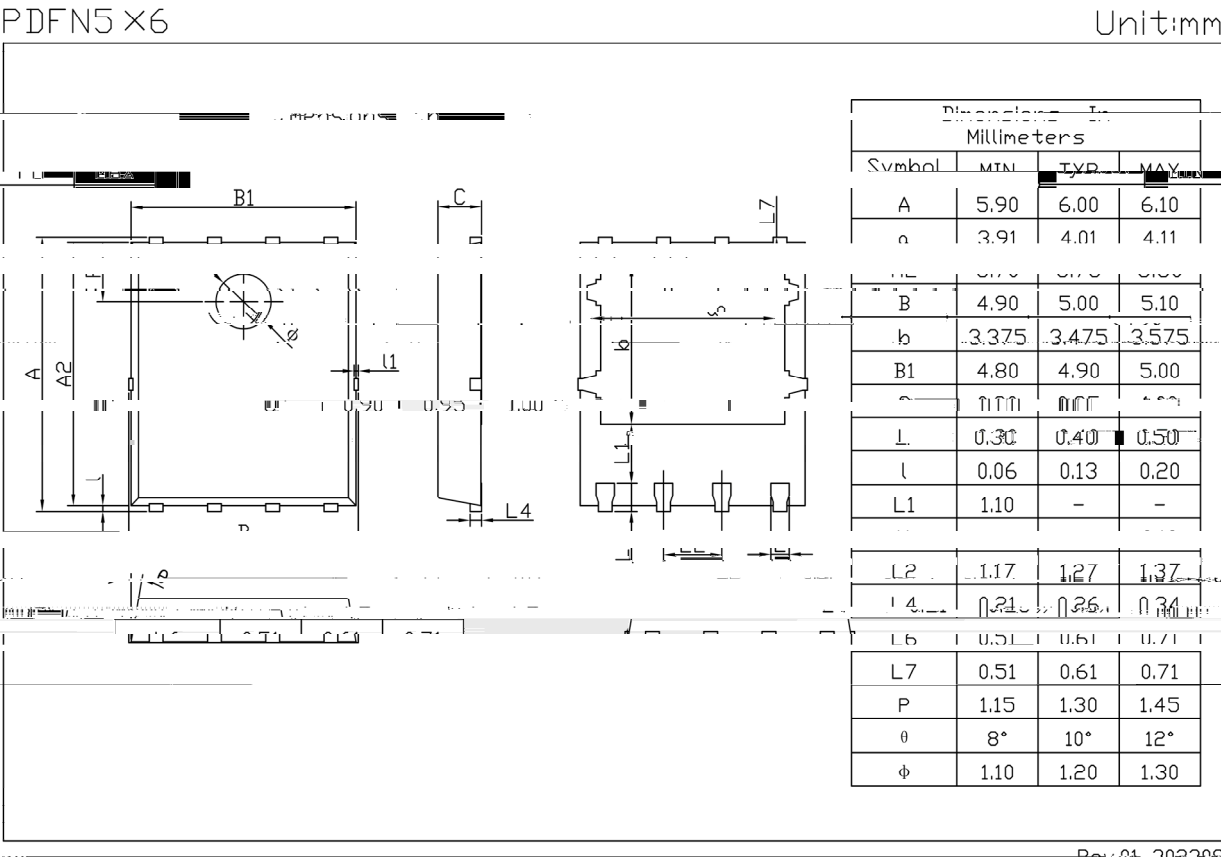
DATA SHEET

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, $T_C=155$	I_F	4	A
Peak forward surge current, $t_p=10ms$	I_{FSM}	42	A

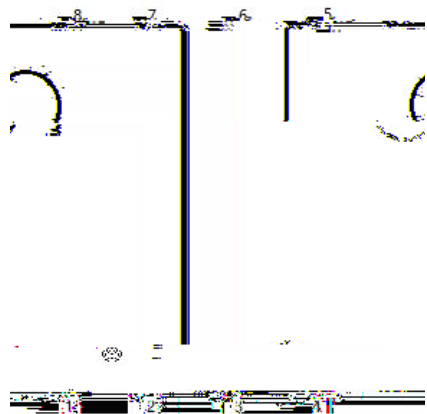
/ Electrical Characteristic Curve



/ Package Dimensions



/ Marking Instructions

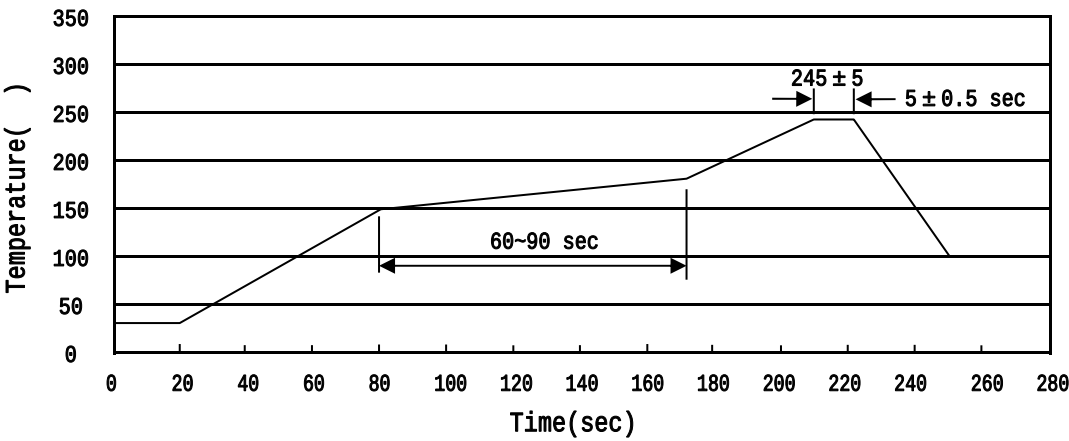


BR
SC04650

Note

BR	Company Code
SC04650	Product Type Code

() / Temperature Profile for IR Reflow Soldering(Pb-Free)



Note:

- 1

150 180

60 90sec;

1.Preheating:150~180 , Time:60~90sec.
- 2

245±5

5±0.5sec;

2.Peak Temp.:245±5 , Duration:5±0.5sec.
- 3

2 10 /sec.

3. Cooling Speed: 2~10 /sec.

/ Resistance to Soldering Heat Test Conditions

260±5 10±1 sec. Temp.:260±5 Time:10±1 sec

/ Packaging SPEC.

/ REEL

Package Type	Units					Dimension (unit mm ³)		
	Units/Reel /	Reels/Inner Box /	Units/Inner Box /	Inner Boxes/Outer Box /	Units/Outer Box /	Reel	Inner Box	Outer Box
PDFN5×6	5,000	2	10,000	6	60,000	13"×12	360×360×50	380×335×366

/ Notices