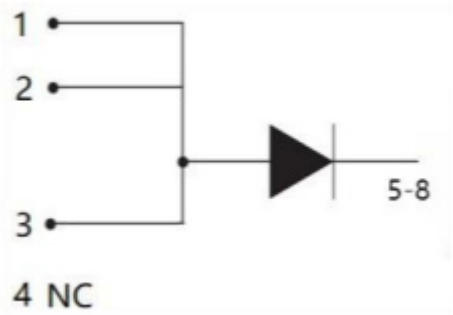
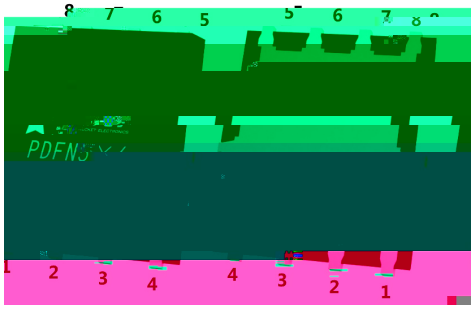
PDFN5×6 SiC

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

Low power loss, high efficiency, HF Product.

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

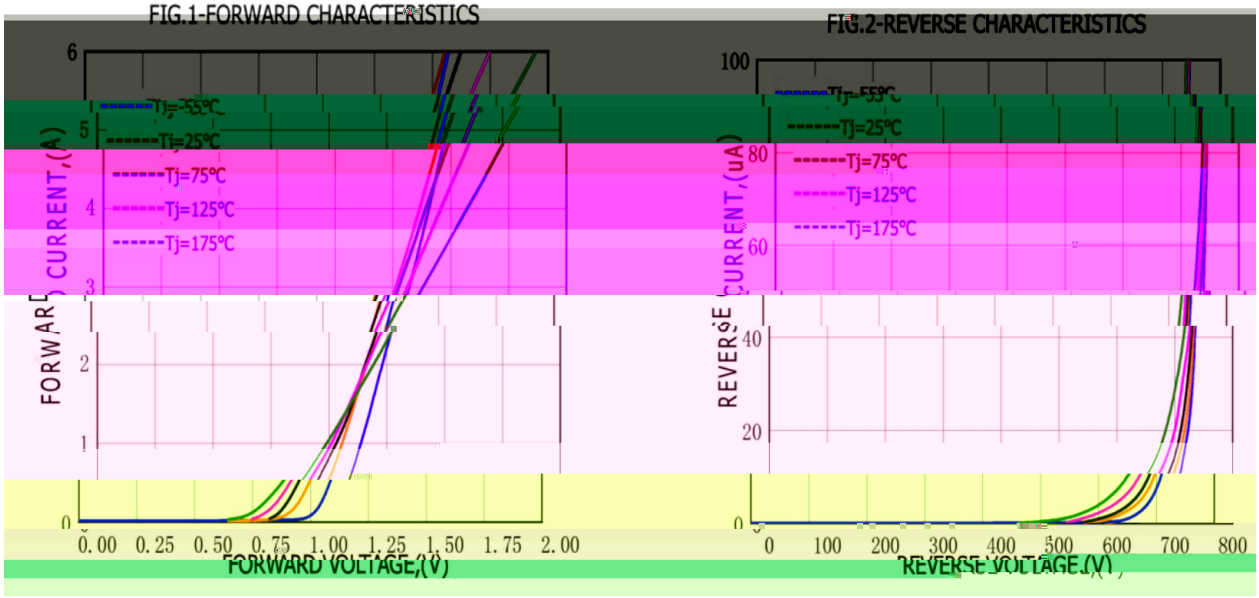




PIN 1,2,3 Anode PIN5-8 Cathode PIN 4 NC

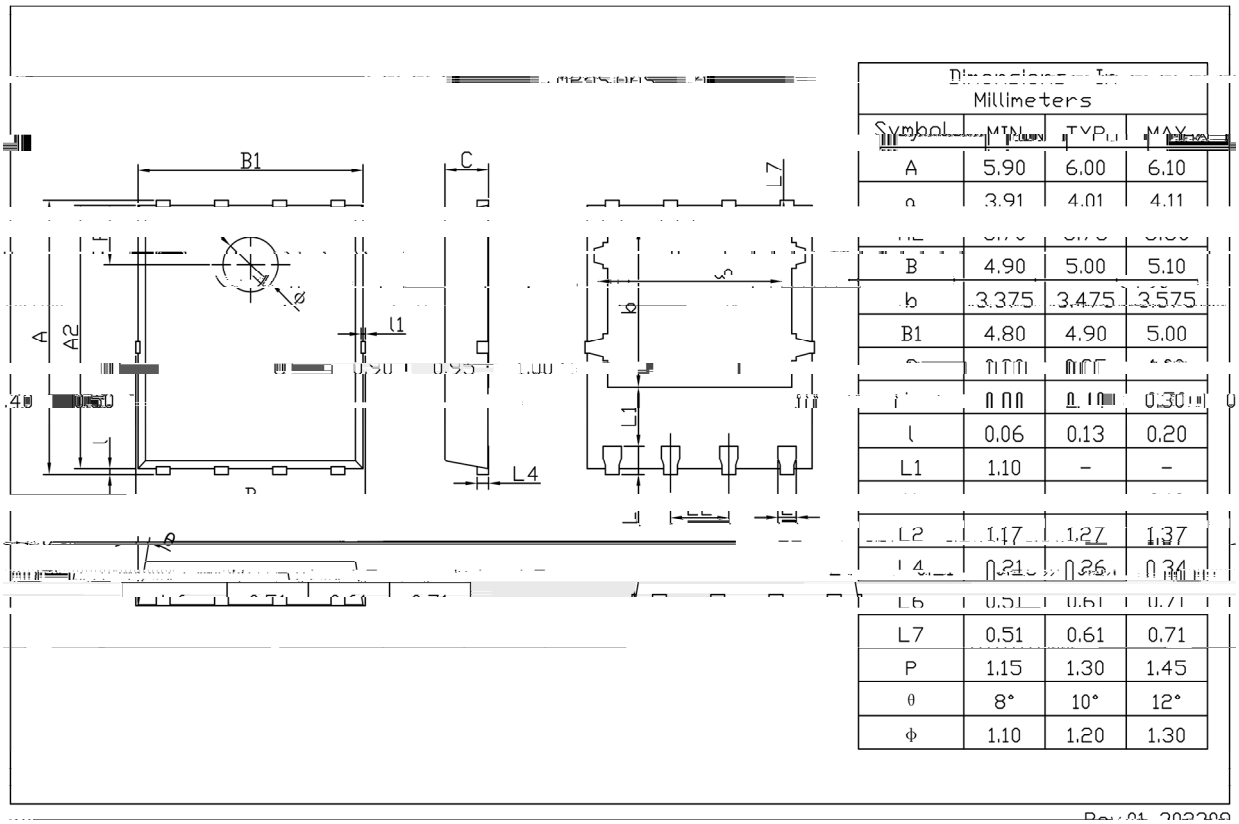
See Marking Instructions.

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,tp=10ms	I_{FSM}	42	A

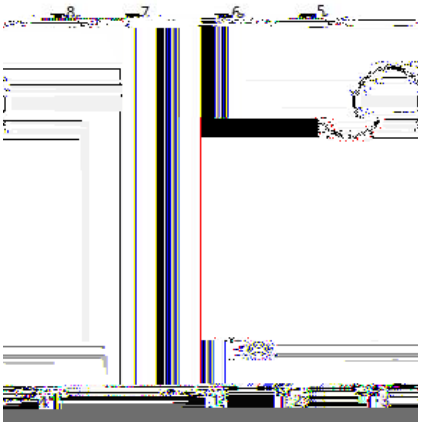

FIG.1-FORWARD CHARACTERISTICS
FORWARD CURRENT,(A)
Tj=-55℃
Tj=25℃
Tj=75℃
Tj=125℃
Tj=175℃
0
1
2
3
4
5
6
0.00 0.25 0.50 0.75 1.00 1.25 1.50 1.75 2.00
FORWARD VOLTAGE,(V)
FIG.2-REVERSE CHARACTERISTICS
REVERSE CURRENT,(uA)
Tj=-55℃
Tj=25℃
Tj=75℃
Tj=125℃
Tj=175℃
0
20
40
60
80
100
0 100 200 300 400 500 600 700 800
REVERSE VOLTAGE,(V)

PDFN5×6

Unit:mm



Symbol	Millimeters		
	MIN	TYP	MAX
A	5.90	6.00	6.10
	3.91	4.01	4.11
B	4.90	5.00	5.10
b	3.375	3.475	3.575
B1	4.80	4.90	5.00
			0.30
l	0.06	0.13	0.20
L1	1.10	–	–
L2	1.17	1.27	1.37
L7	0.51	0.61	0.71
P	1.15	1.30	1.45
θ	8°	10°	12°
Φ	1.10	1.20	1.30



BR

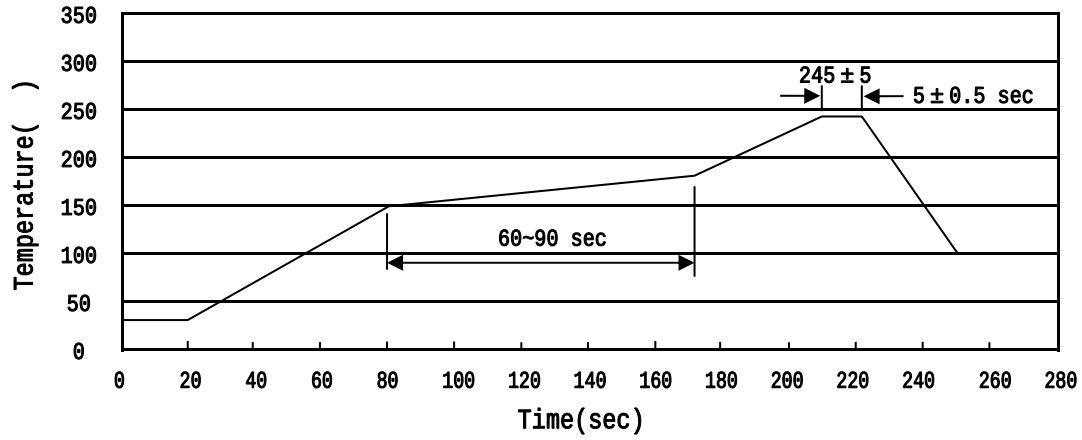
SC04650

****

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.	

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

/ REEL

Package Type	Units					Dimension		(unit mm³)
	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