/ Descriptions

PDFN5×6 SiC

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

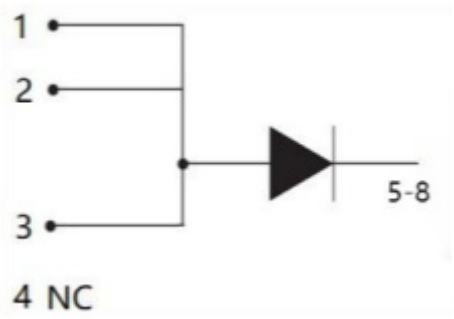
/ Features

Low power loss, high efficiency, HF Product.

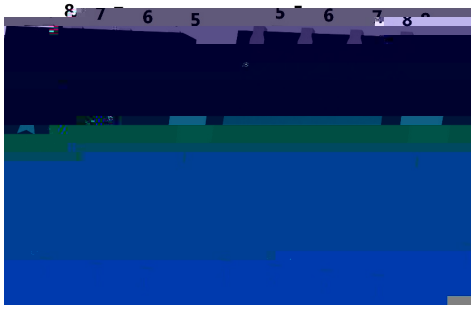
/ Applications

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

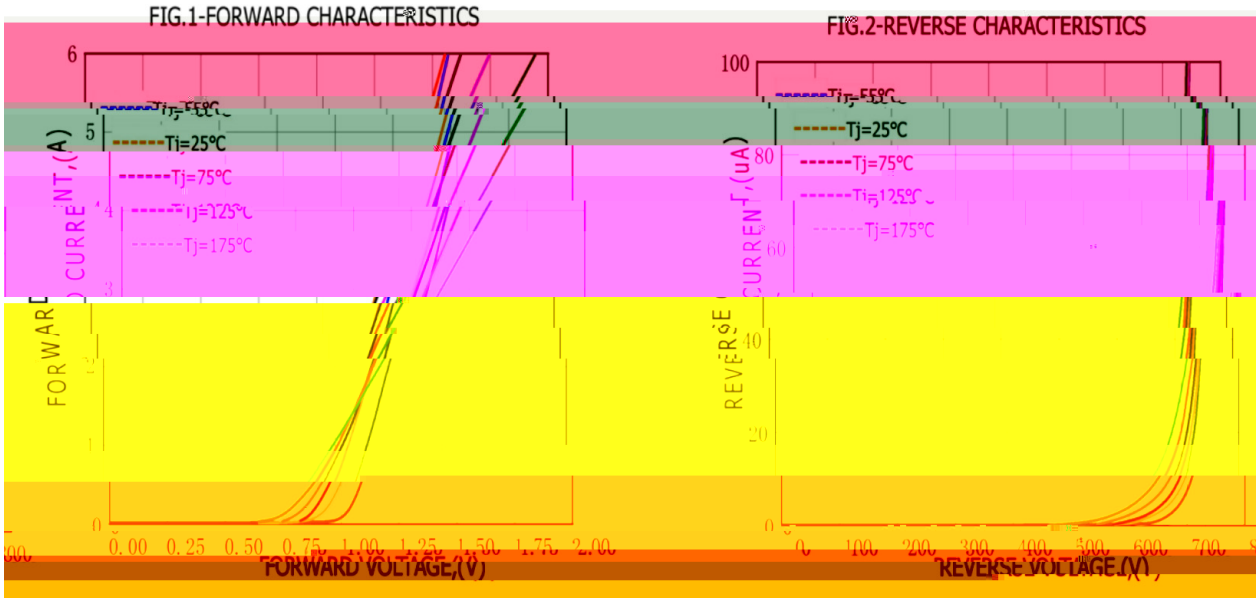
/ Marking

See Marking Instructions.

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

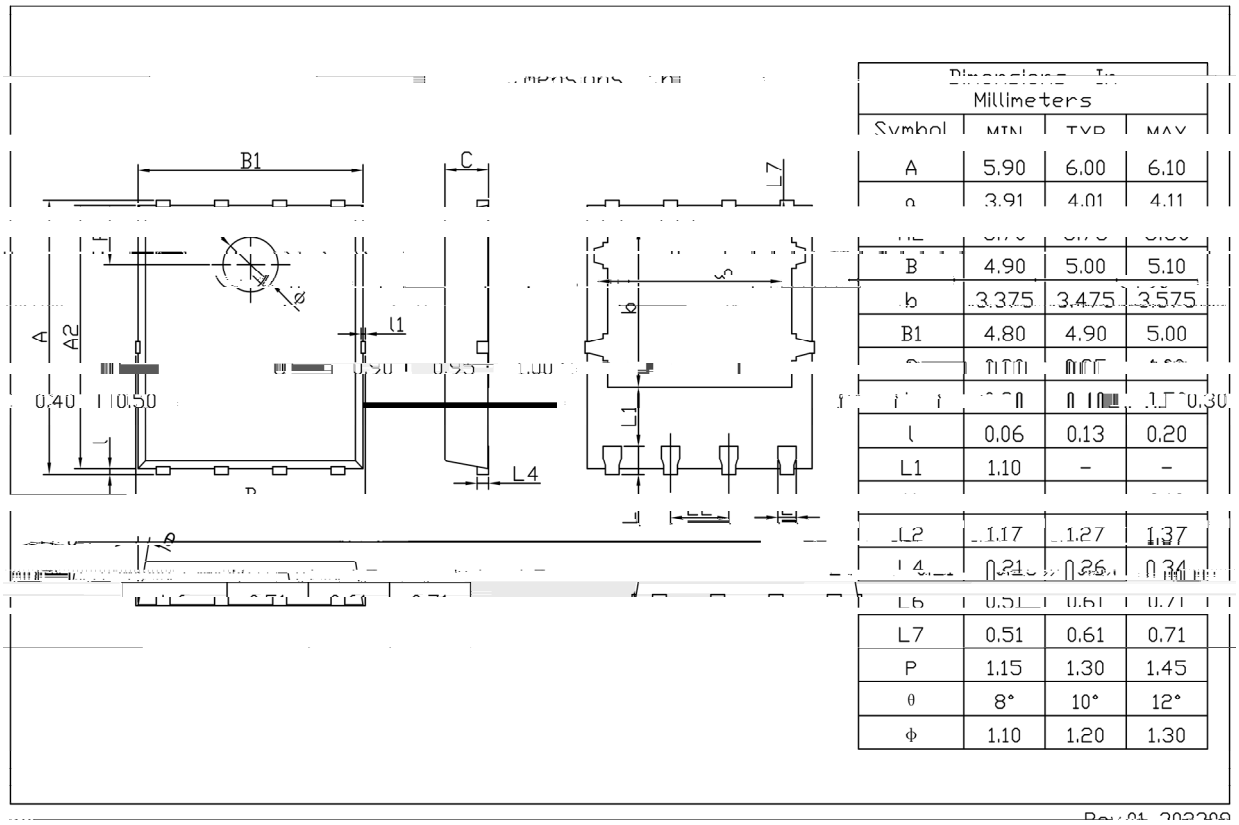
DC

/ Electrical Characteristic Curve



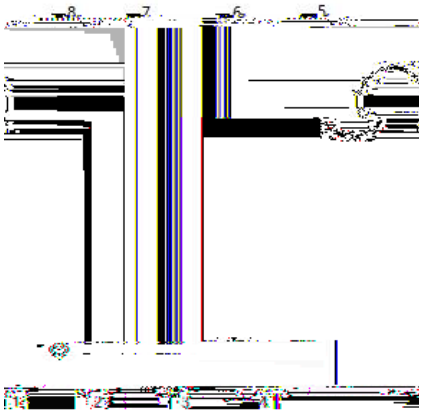
/ Package Dimensions

PDFN5×6 Unit:mm



Symbol	Millimeters MIN	TYP	MAX
A	5.90	6.00	6.10
B	4.90	5.00	5.10
b	3.375	3.475	3.575
B1	4.80	4.90	5.00
l	0.06	0.13	0.20
L1	1.10	–	–
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

/ Marking Instructions



BR

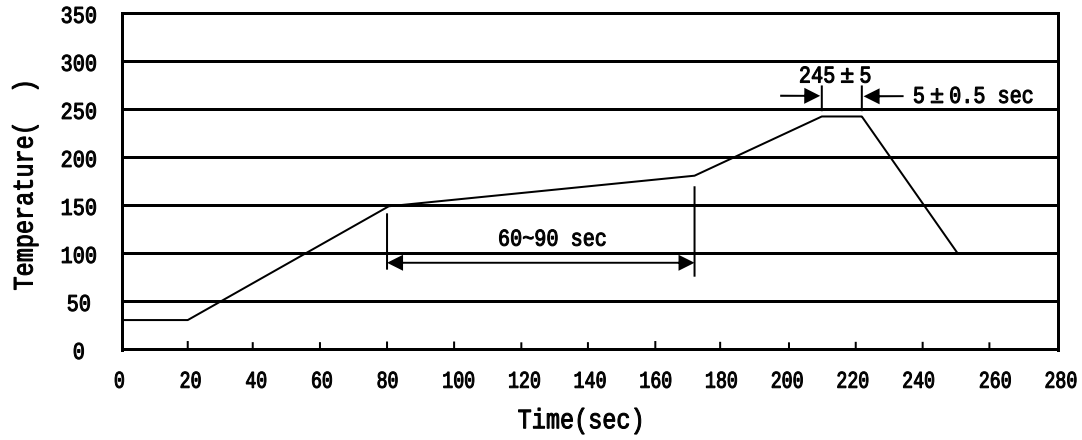
SC04650

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Note

BR	Company Code
SC04650	Product Type Code

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



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