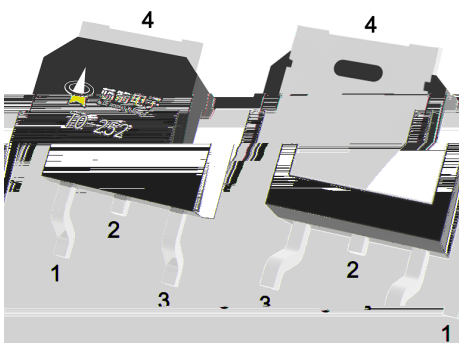
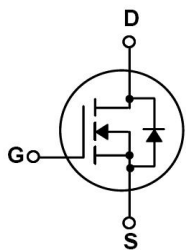


Rev.A Jul.-2026

TO-252 N MOS
 SiC N-CHANNEL MOSFET in a TO-252 Plastic Package.

$V_{DS}=800V$ $I_D=6.9A$
 $R_{DS(on)}@15V \leq 1300m\Omega$ (Type.1000m Ω)

Switch Mode Power Supplies, High Voltage DC/DC Converters, Battery Chargers, Motor Drives, Pulsed Power Applications.



PIN1 G PIN 2 D PIN 3 S PIN 4 D

See Marking Instructions.

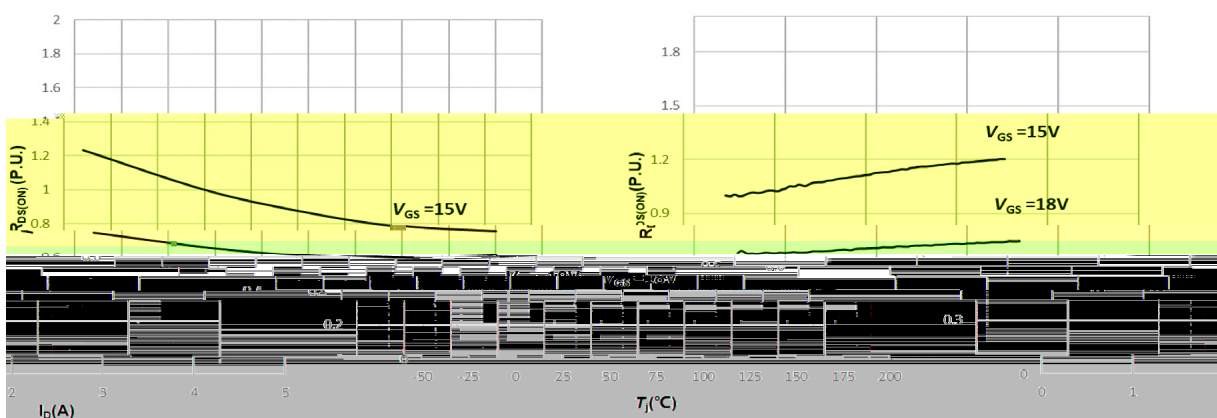
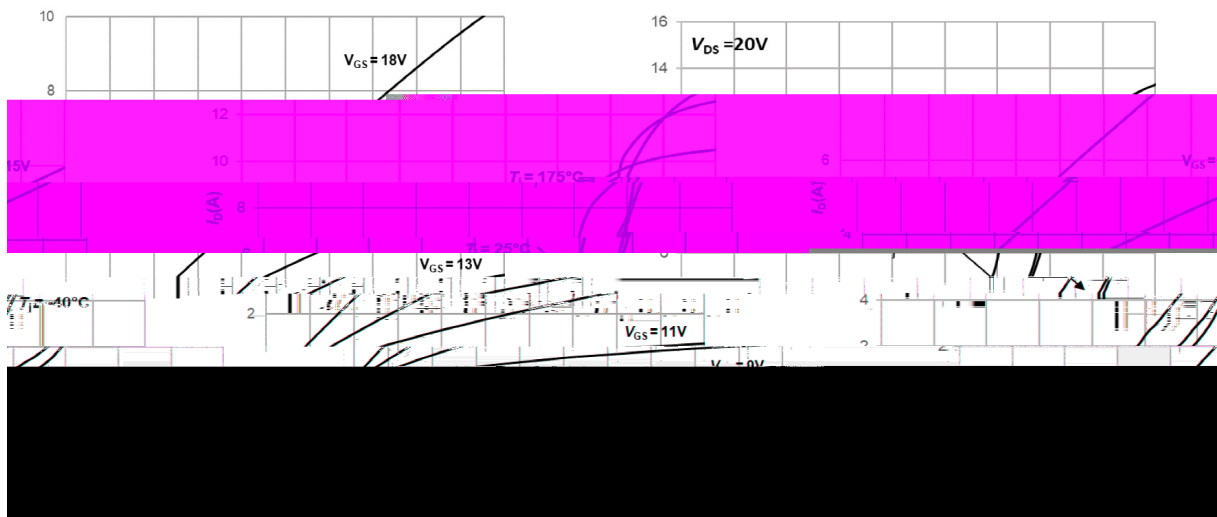
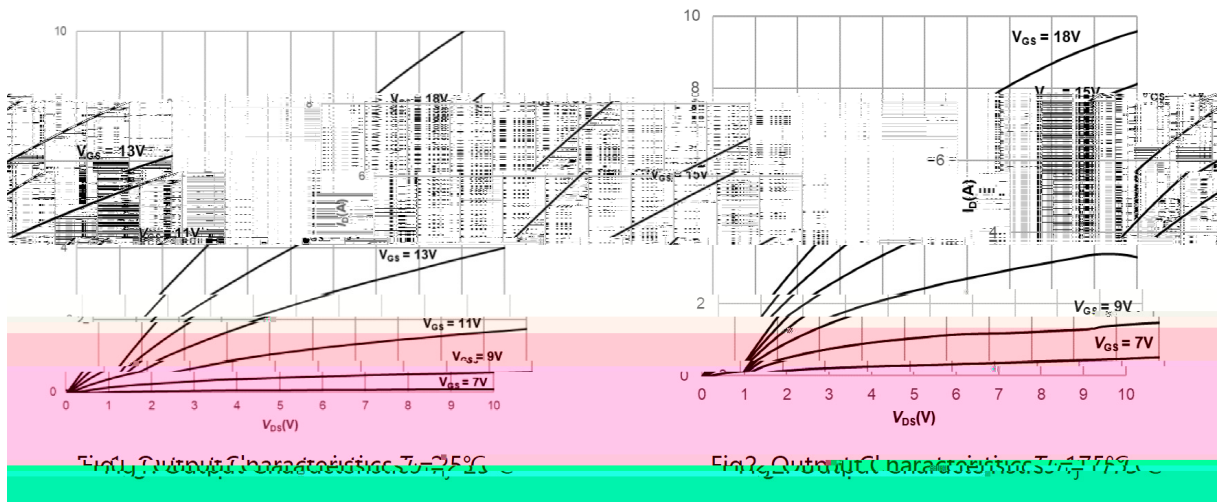
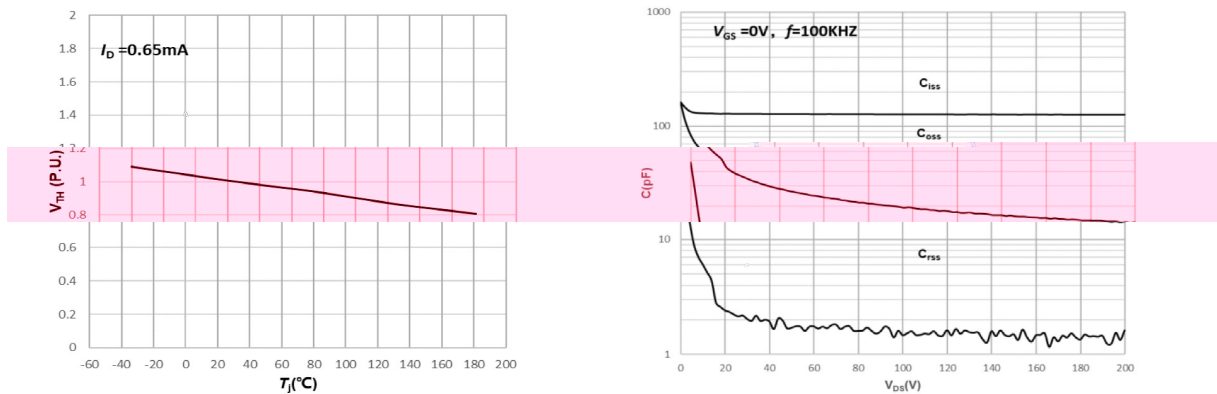


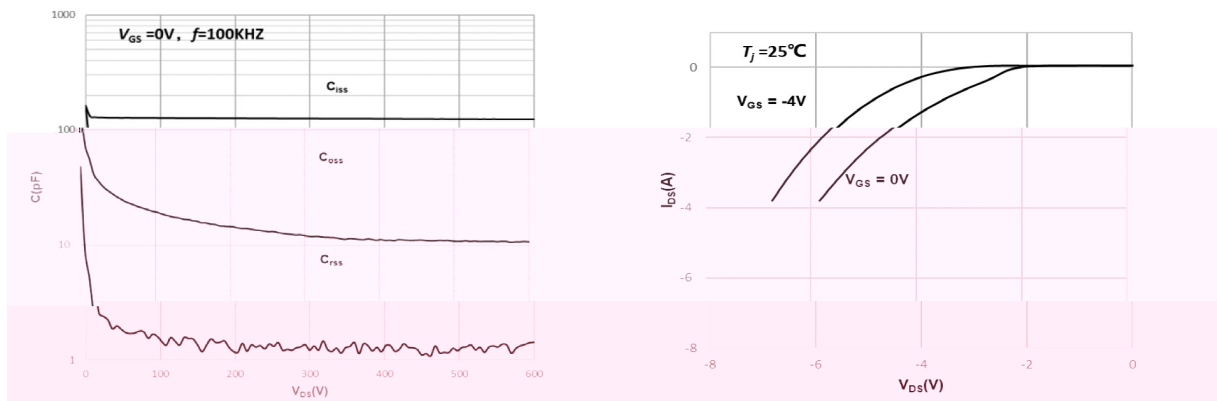
Fig5. Normalized On-Resistance vs. Temperature

Fig6. Normalized On-Resistance vs. Drain Current

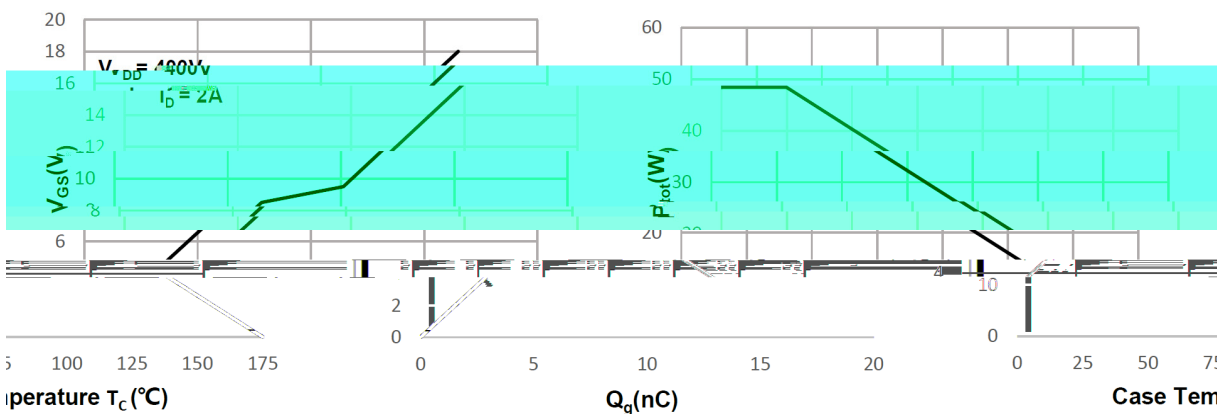
Fig7. Normalized On-Resistance vs. Drain Current



Normalized Threshold Voltage vs. Temperature, High-Capacitance Drain-Source Voltage (0~200V), High-Frequency



High-Capacitance vs. Drain-Source Voltage (0~600V), High-Frequency Drain Current Characteristics



Gate-Source Voltage vs. Temperature, Total Power Dissipation vs. Case Temperature

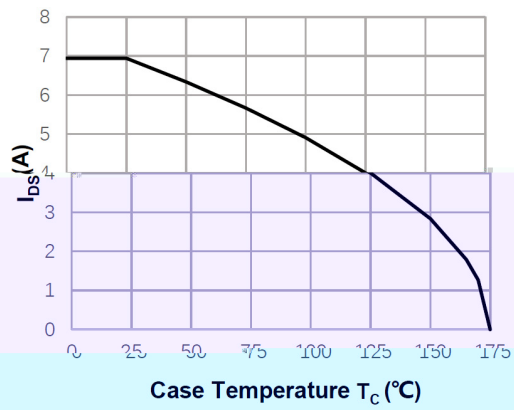
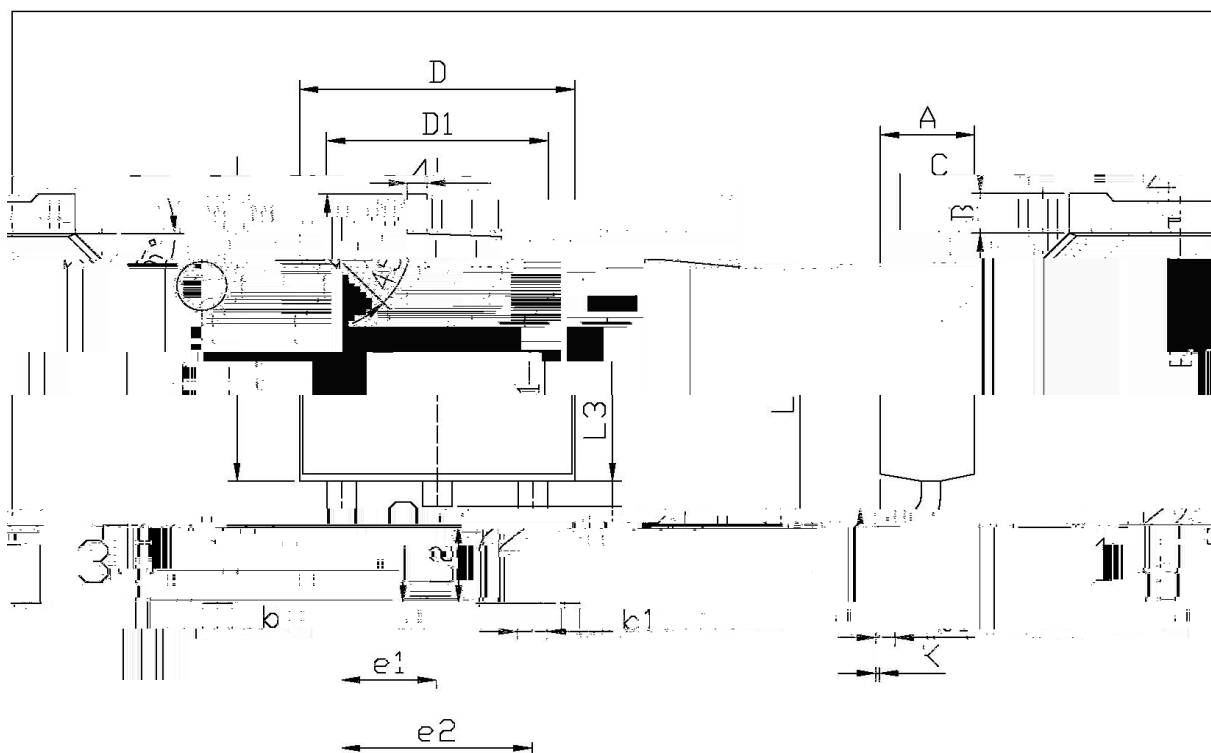


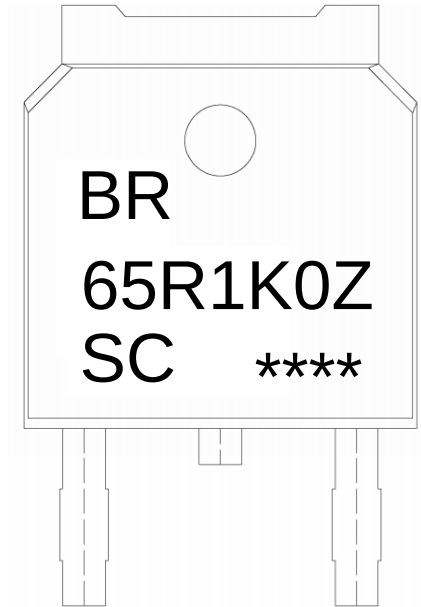
Fig13. Continuous Drain Current vs. Case Temperature



单位: mm

Symbol	Dimensions In Millimeters		Symbol	Dimensions In Millimeters	
	Min	Max		Min	Max
A	6.95	7.25	A	2.20	2.40
B	0.95	1.25	e1	2.24	2.34
b	1.70	1.90	e2	2.40	2.50
b1	0.45	0.55	E1	9.85	10.35
f	0.45	0.55		1.70	2.00
L3	0.60	0.90	D1	6.45	6.60
K	0.00	0.10	D	5.10	5.30

□-252



BR

Note:

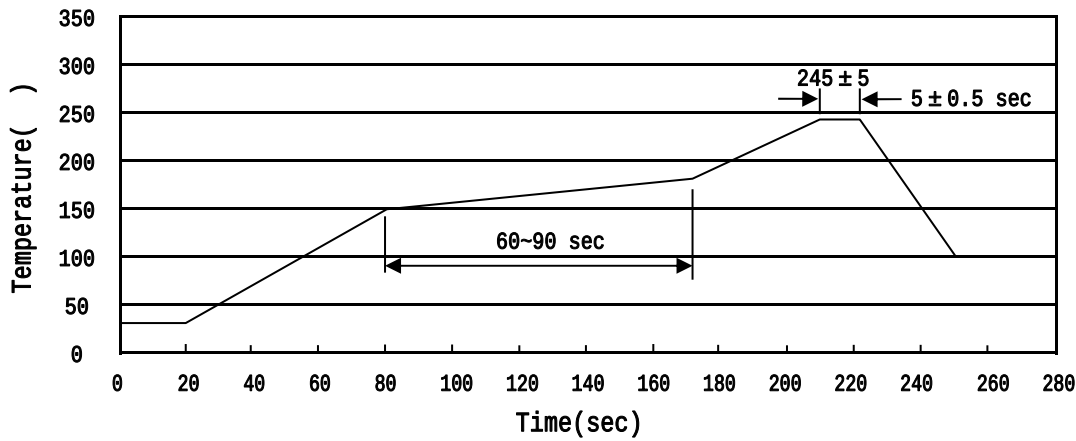
BR: Company Code

65R1K0Z: Product Type Code

SC: SiC

****: Lot No. Code, code change with Lot No.

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 mm ³)		
TO-252	2,500	2	5,000	6	30,000	13 ×16	360×360×50	380×335×366

/ TUBE

Package Type	Units					Dimension (unit mm ³)		
TO-251/252	75	48	3,600	5	18,000	526×20.5×5.25	555×164×50	575×290×180

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