

BRSC65R180ZDP



DATA SHEET

SiC

/ Absolute Maximum Ratings(Tc=25)

/ Electrical Characteristics(Tc=25)

		μ				
						μ
						Ω
						μ

/ Electrical Characteristics(Tc=25)

		Ω μ				
-						μ
-						
						Ω

/ Electrical Characteristic Curve

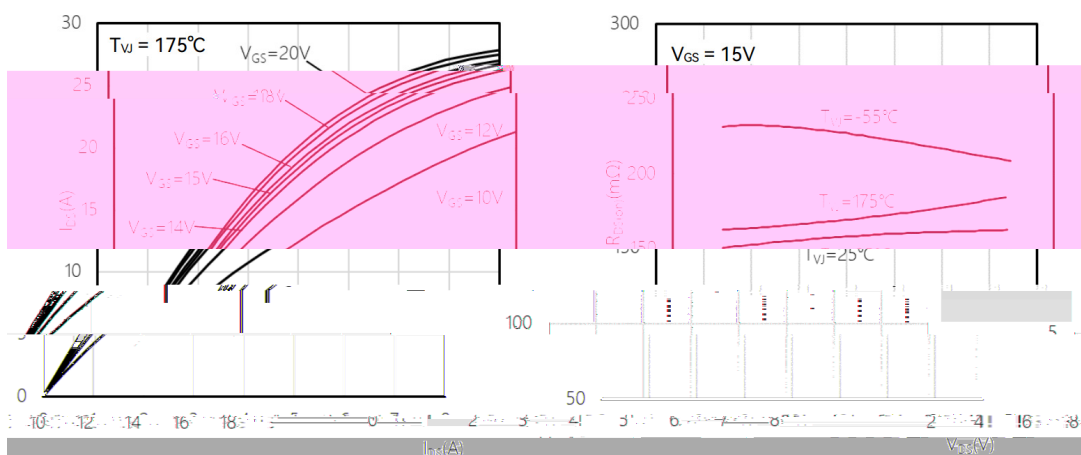
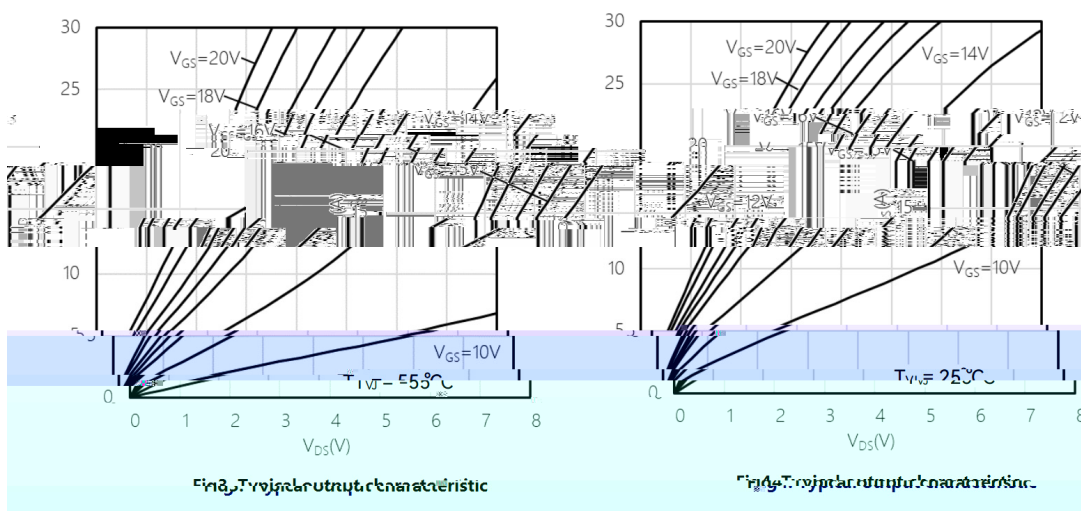
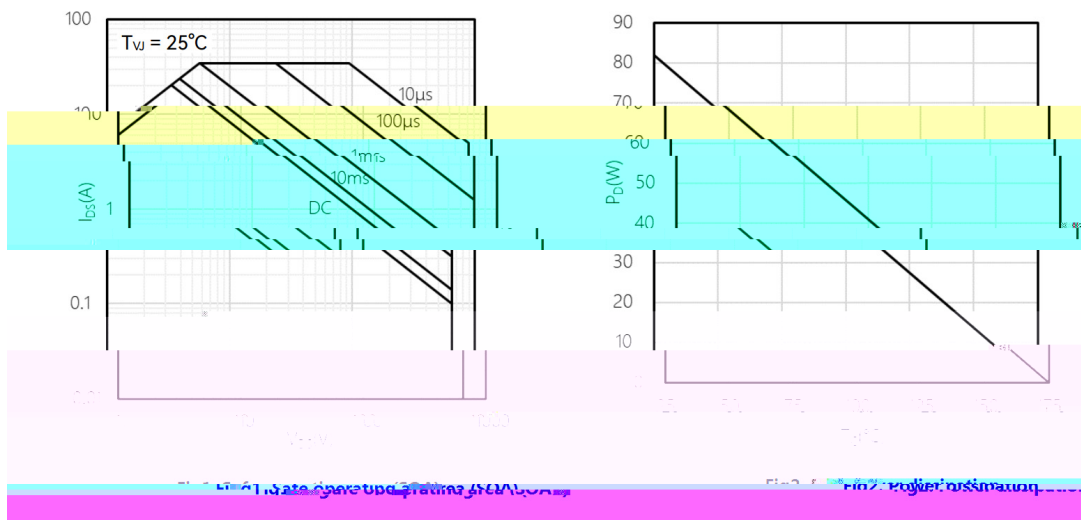
stic
Fig6. Typical on-state resistance as a function of drain current

Fig5. Typical output characteri

/ Electrical Characteristic Curve

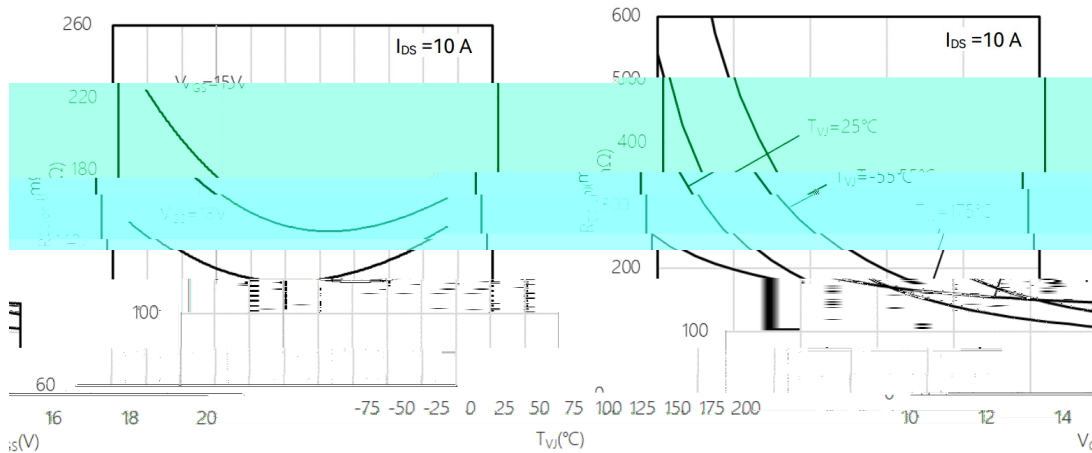
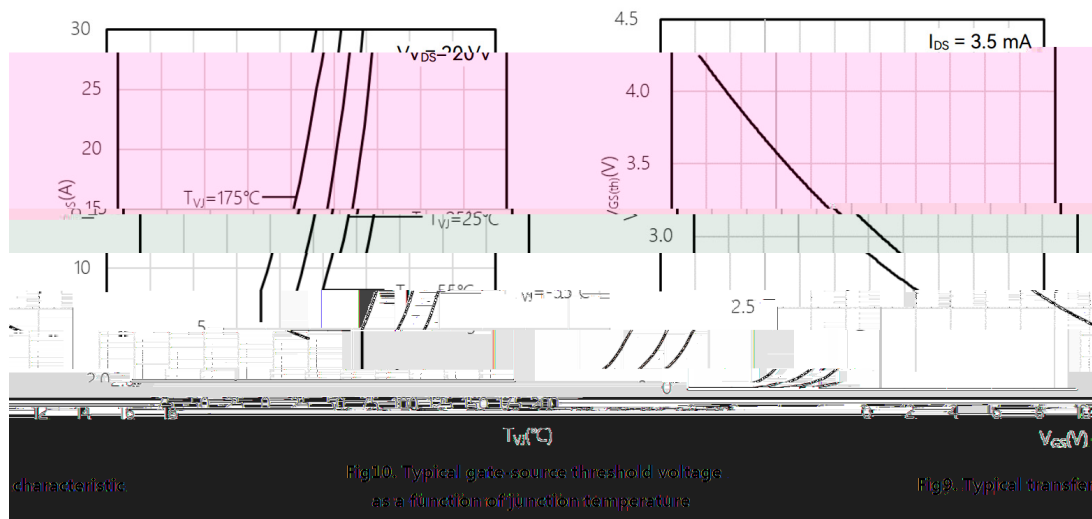
tance as a function of V_{GS}

Fig7. Typical on-state resistance as a function of temperature

Fig8. Typical on-state resistance as a function of V_{GS} 

characteristic

Fig10. Typical gate-source threshold voltage as a function of junction temperature

Fig9. Typical transfer characteristic

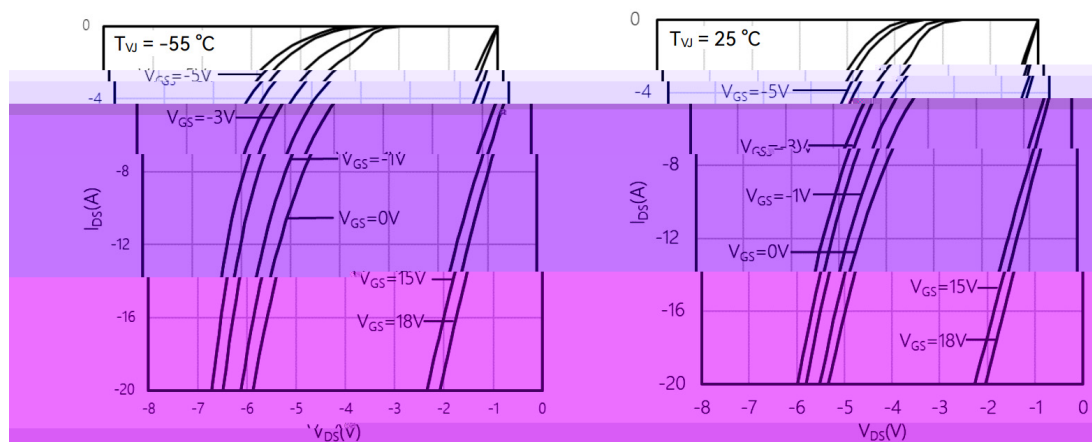


Fig11. Typical reverse drain current as a function of reverse drain voltage

Fig12. Typical reverse drain current as a function of reverse drain voltage

/ Electrical Characteristic Curve

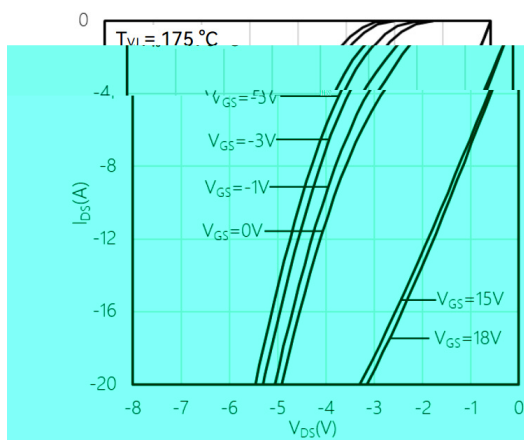


Fig13. Typical reverse drain current as function of reverse drain voltage

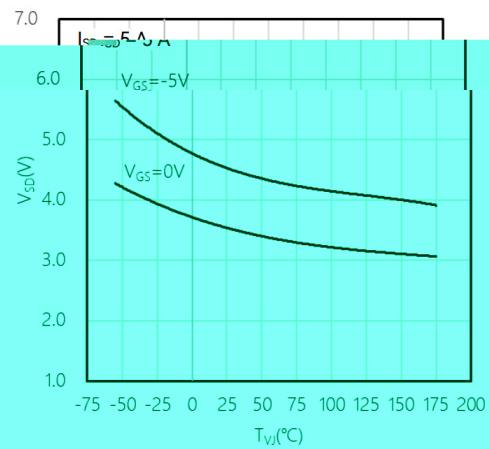
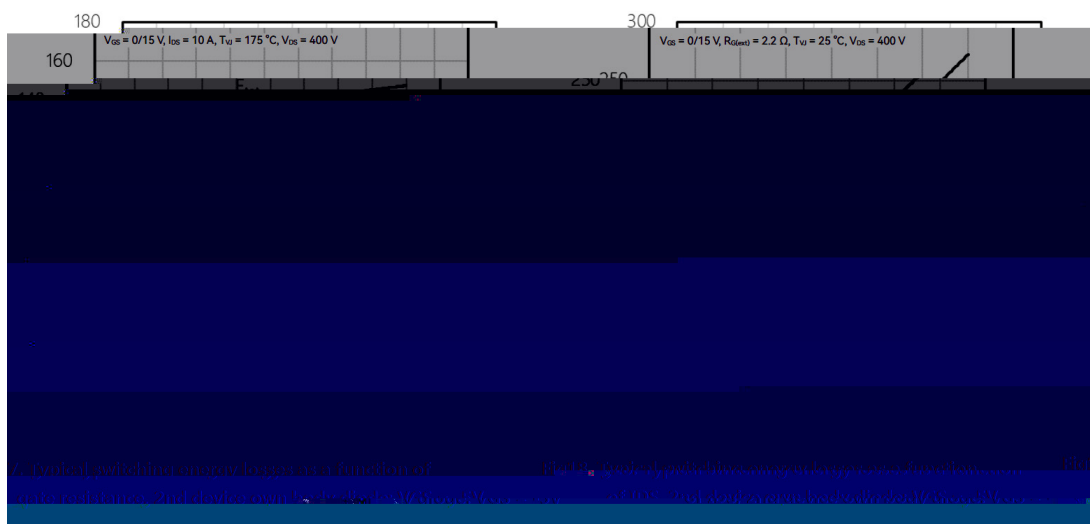
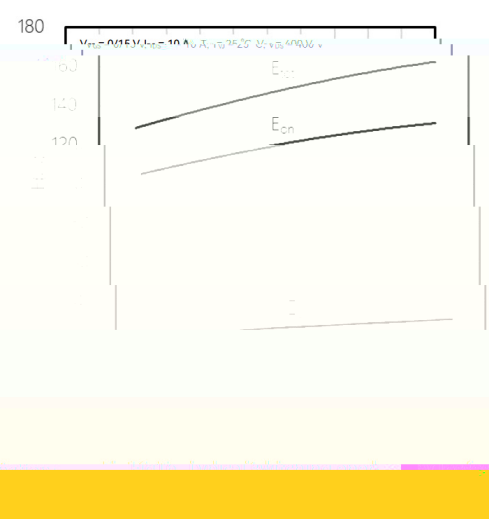
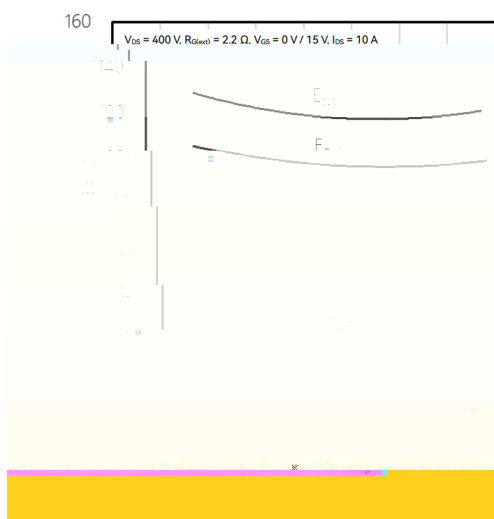


Fig14. Typical reverse drain voltage as function of junction temperature



/ Electrical Characteristic Curve

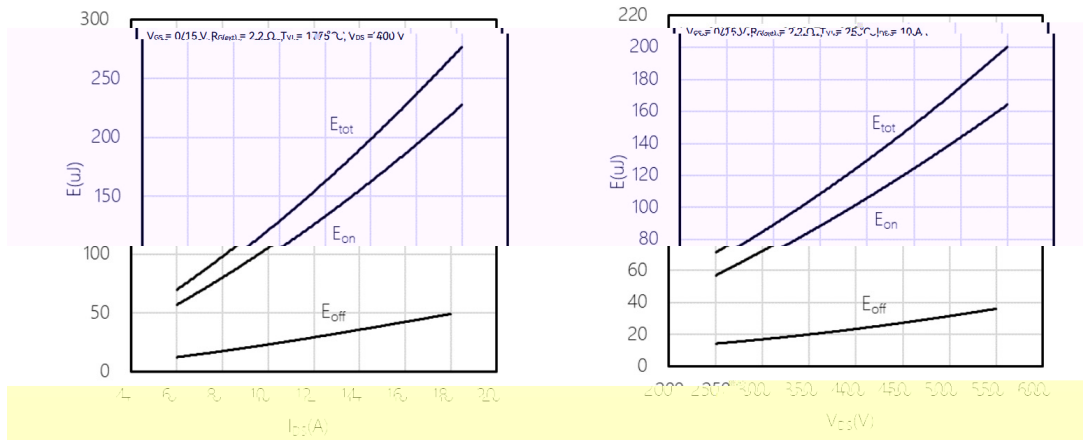
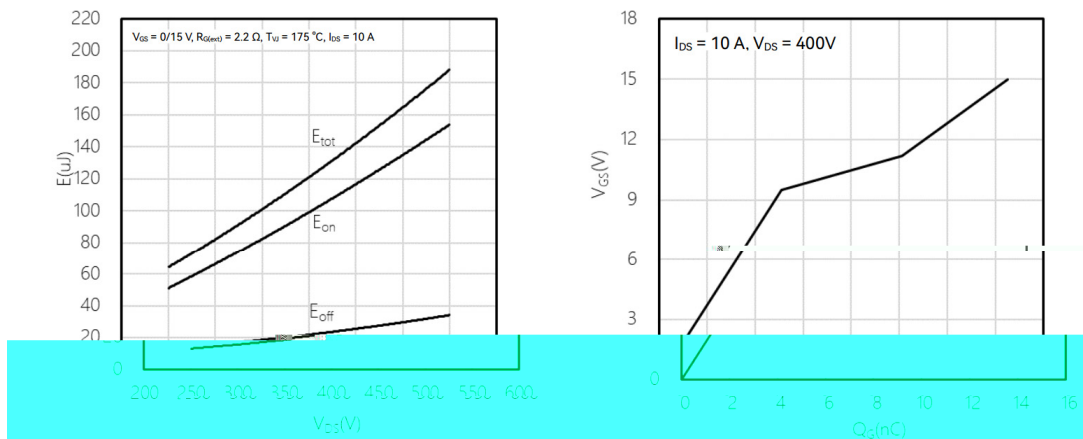
Fig19: Typical switching energy losses as a function of I_{DS} , 2nd device own body diode: $V_{GS} = -5V$ Fig20: Typical switching energy losses as a function of V_{DS} , 2nd device own body diode: $V_{GS} = -5V$ Fig 21: Typical switching energy losses as a function of V_{DS} , 2nd device own body diode: $V_{GS} = -5V$

Fig22: typical gate charge

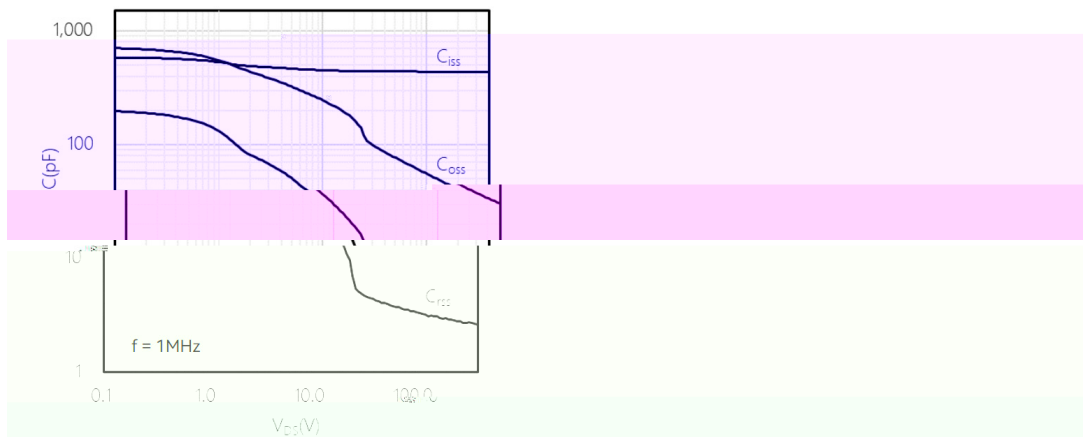


Fig23: Typical capacitance as a function of drain-source voltage

/ Electrical Characteristic Curve

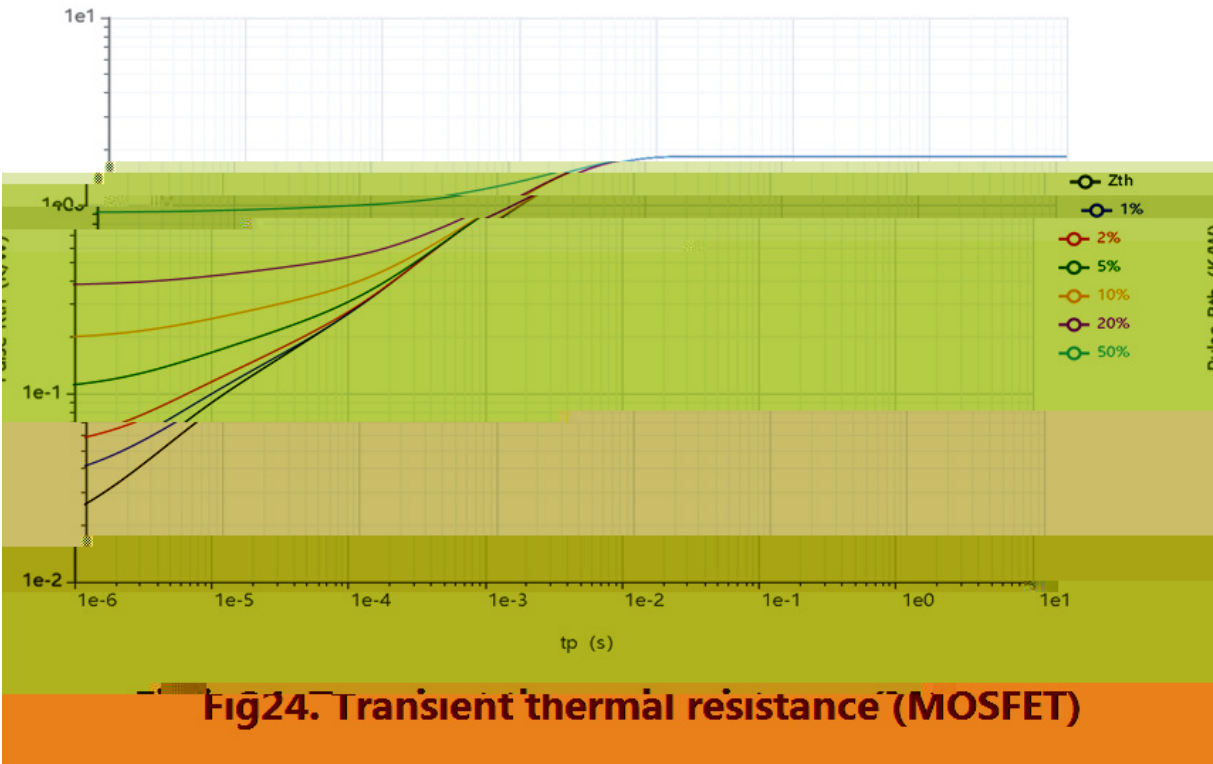
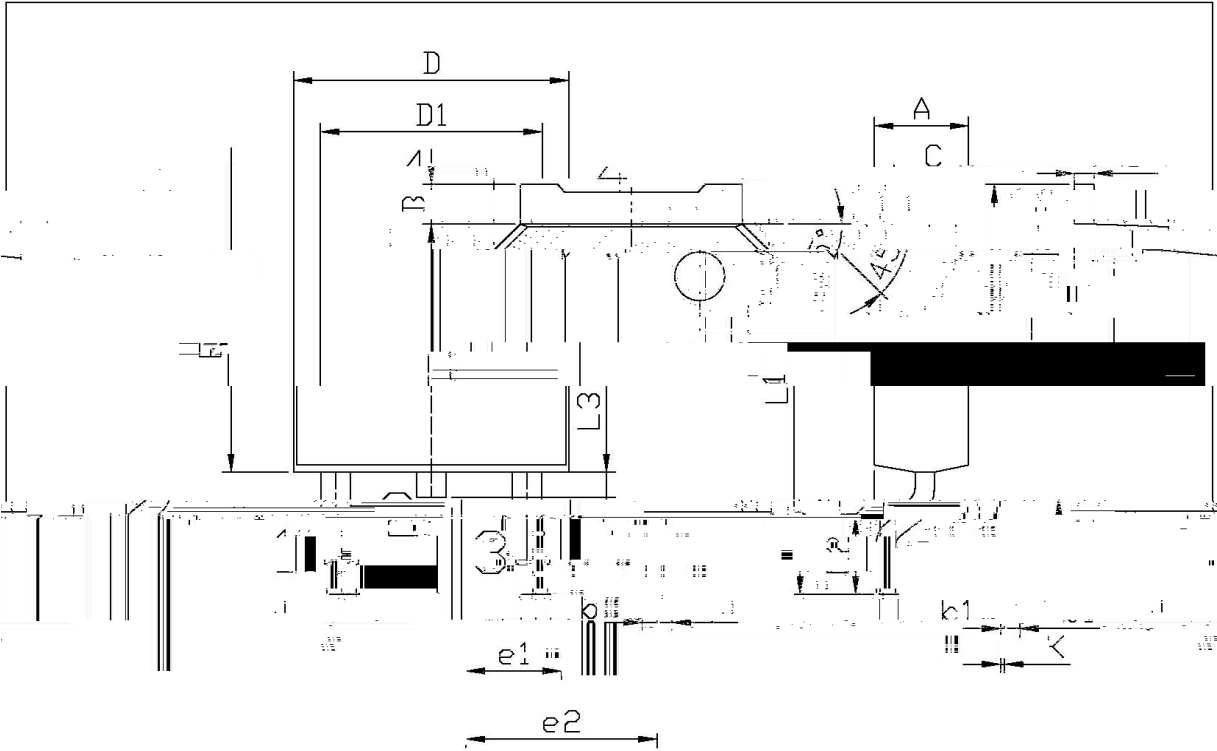


Fig24. Transient thermal resistance (MOSFET)

/ Package Dimensions



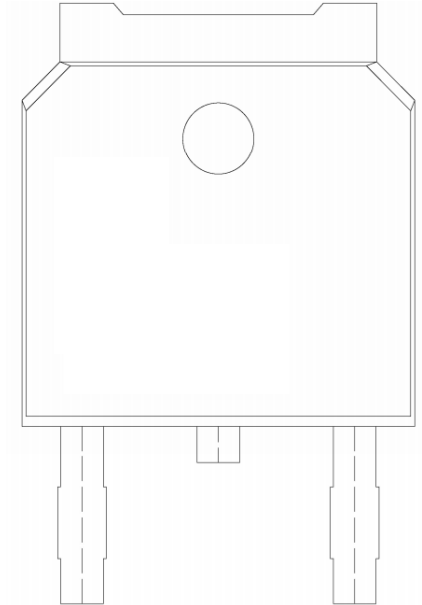
单位: mm

Dimensions In Millimeters			Dimensions In Millimeters		
Symbol	Min	Max	Symbol	Min	Max
A	6.35	7.25	b	2.20	2.40
B	2.24	2.34	e1	0.95	1.25
C	12.40	13.20	b1	0.70	0.80
D	9.85	10.35	b2	0.45	0.55
D1	15	16.55	L2	1.70	2.00
L3	0.90	1.35	L3	6.75	7.35
L4	0.60	0.65	L4	5.10	5.50

-252

T0

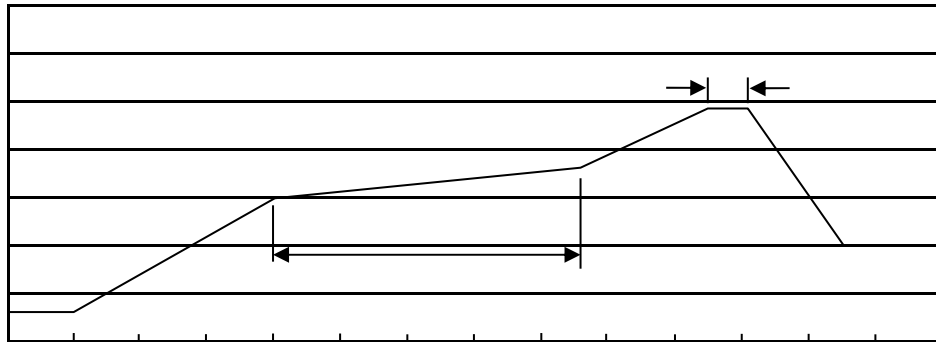
/ Marking Instructions



65R180Z

SC

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

 $\pm$ $\pm$ $\pm$ $\pm$

/ Resistance to Soldering Heat Test Conditions

 $\pm$ $\pm$

/ Packaging SPEC.

	Units/Reel /	Reels/Inner Box /	Units/Inner Box /	Inner Boxes/Outer Box /	Units/Outer Box /	Reel	Inner Box	Outer Box

	Units/Tube /	Tubes/Inner Box /	Units/Inner Box /	Inner Boxes/Outer Box /	Units/Outer Box /	Tube	Inner Box	Outer Box

/ Notices