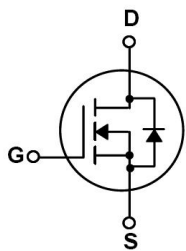
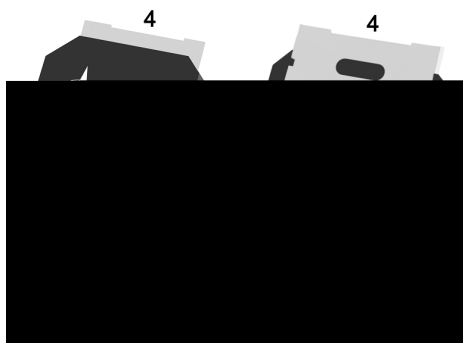


TO-252 3 650V N-Channel MOSFET

N-CHANNEL 650V Super-Junction Power MOSFET in a TO-252 Plastic Package.

Low $R_{DS(on)}$, low gate charge, low C_{rss} , fast switching, HF Product.

Power factor correction, Switched mode power supplies, Uninterruptible Power Supply.



PIN1 y G

PIN 2 y D

PIN 3 y S

PIN 4 y D ,

BRD65R380T

Rev.A Apr.-2025


蓝箭电子
 BLUE ROCKET ELECTRONICS

DATA SHEET

	@ f Parameter	... Z Symbol	f > Rating	% y Unit
	Drain-Source Voltage	V_{DS}	650	V
	Drain Current	$I_D(T_C=25^\circ\text{C})$	11	A
	Drain Current - Pulsed	I_{DM}	44	A
	Gate-Source Voltage	V_{GS}	± 30	V
	Single Pulsed Avalanche Energy	E_{AS}	243	mJ
	Avalanche Current	I_{AS}	7.5	A
	Power Dissipation	$P_D(T_C=25^\circ\text{C})$	125	W
	Operating and Storage Temperature Range	T_J, T_{STG}	-55 to 150	-
	Junction-to-Case	R_{JC}	1	- /W
	Junction-to-Ambient	R_{JA}	55	- /W

@ f Parameter	... Z Symbol	y i Ú ^ Test Conditions	Â 4 > Min	Á ° > Typ	Â Ý > Max	% y Unit
Drain-Source Breakdown Voltage	BV_{DS}	$V_{GS}=0V$ $I_D=250\text{ A}$	650			V
Zero Gate Voltage Drain Current	I_{DSS}	$V_{DS}=650V$ $V_{GS}=0V$ $T_J=25$			1.0	A
Gate-Body Leakage Current, Forward	I_{GSS}	$V_{GS}=\pm 30V$			± 100	nA
Gate Threshold Voltage	$V_{GS(th)}$	$V_{DS}=V_{GS}$ $I_D=250\text{ A}$	2.5	3.3	4.5	V

 Static Drain-Source
 On-Resistance
 $R_{DS(on)}$ $V_{GS}=10V$ $I_D=5.5A$

370

380

m

BRD65R380T

Rev.A Apr.-2025

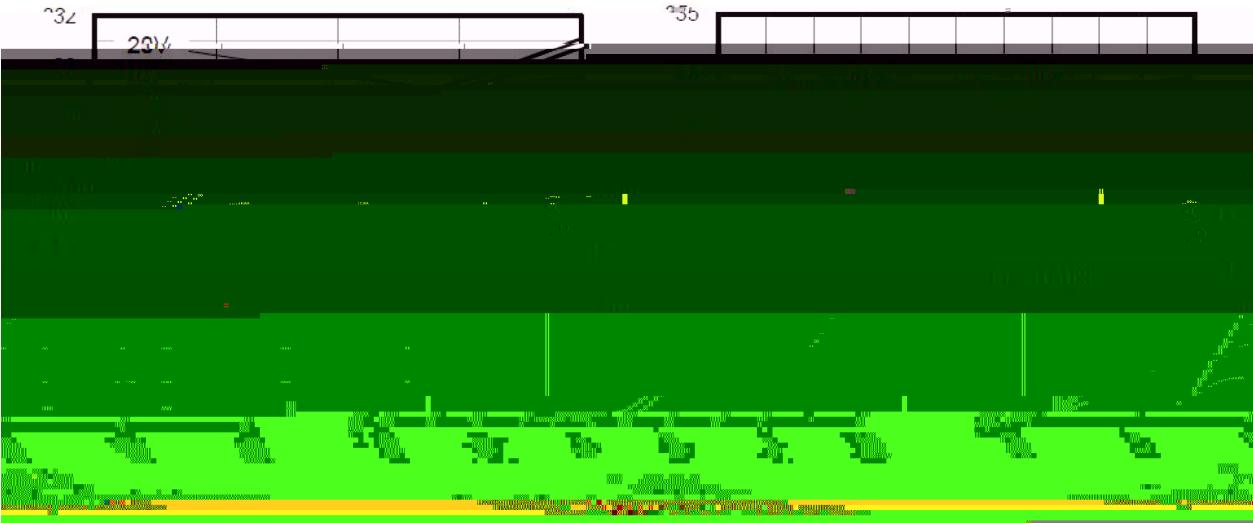
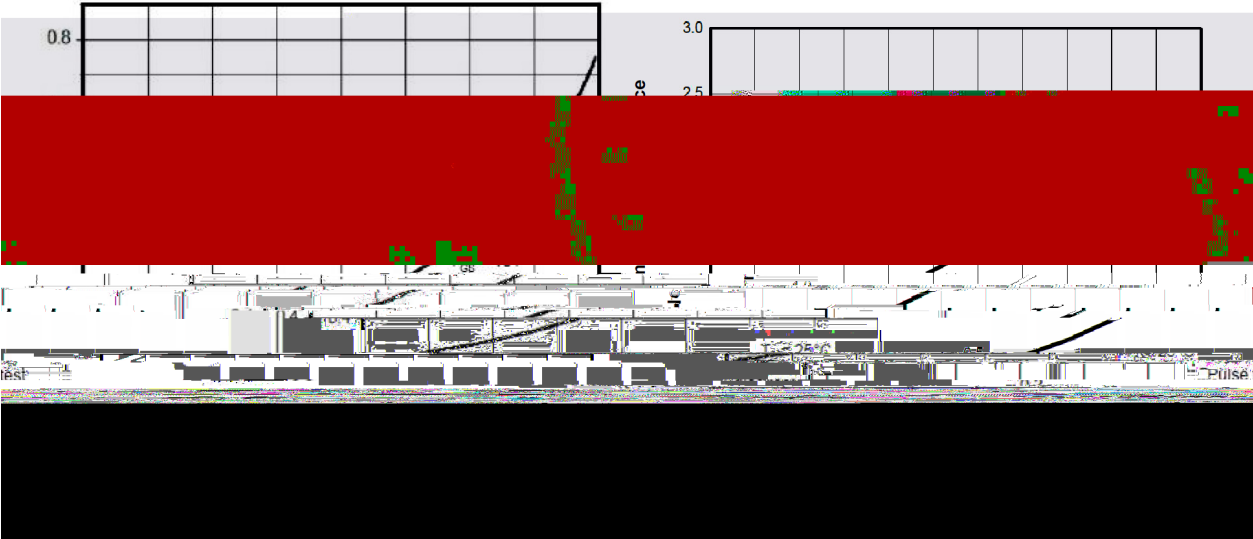
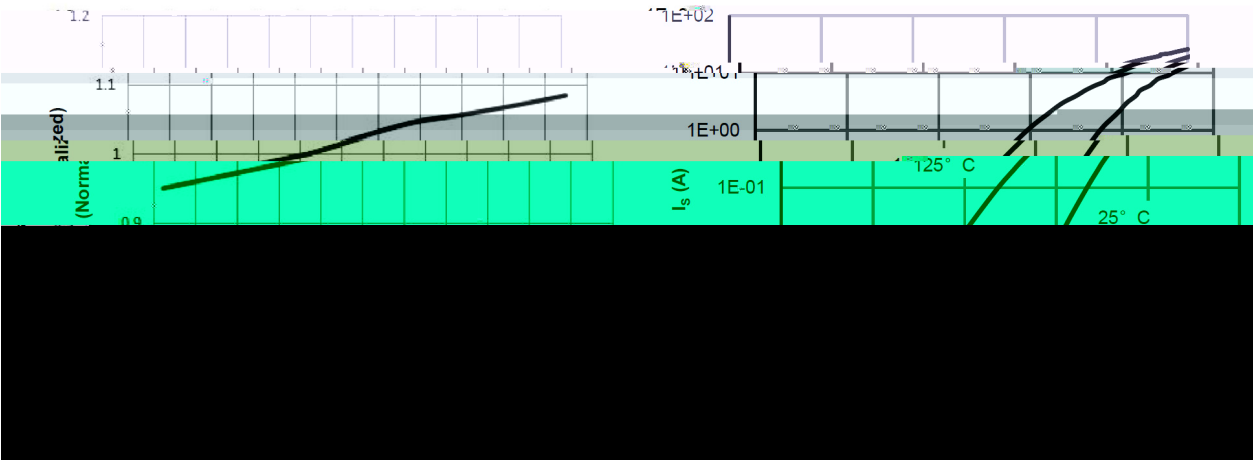

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DATA SHEET

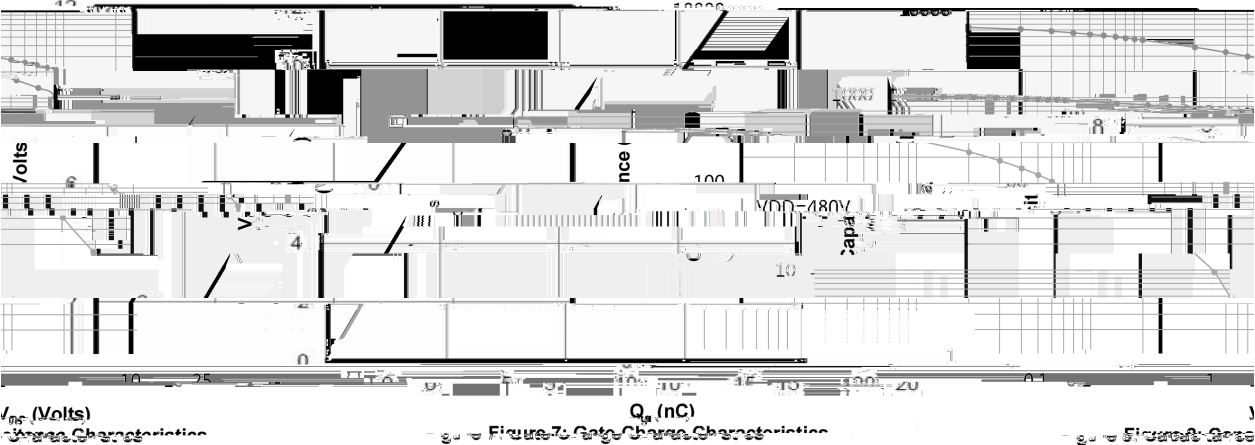
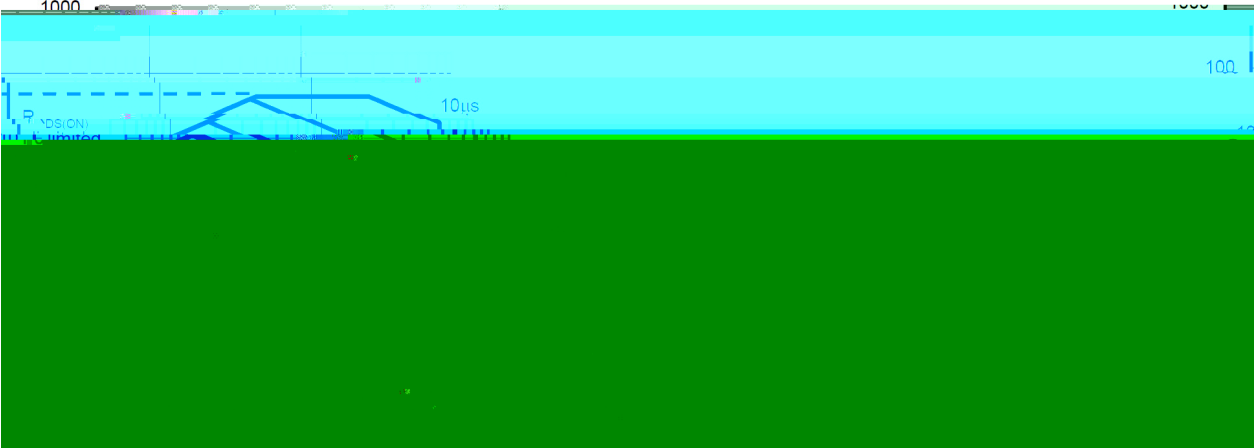
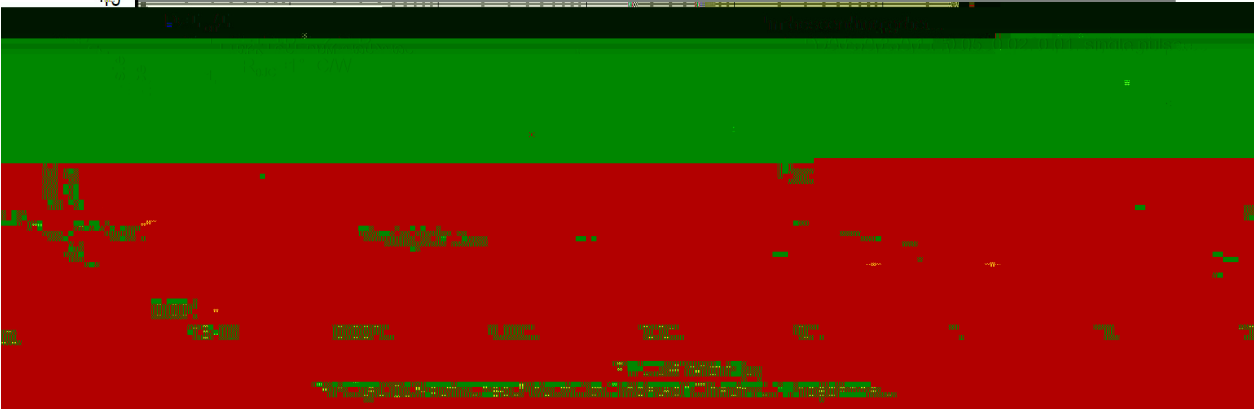
Electrical Characteristics(Ta=25℃ ;)

@ f Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Continuous Diode Forward Current	I _S				11	A
Total Gate Charge	Q _g	V _{DS} =480V I _D =5.5A V _{GS} =10V		15.8		nC
Gate-Source Charge	Q _{gs}			4.3		nC
Gate-Drain Charge	Q _{gd}			1.7		nC
Reverse recovery time	T _{rr}	V _R =400 V, I _F =5.5A, dI _F /dt=100 A/ s		194.6		ns
Reverse recovery charge	Q _{rr}			1.8		uC

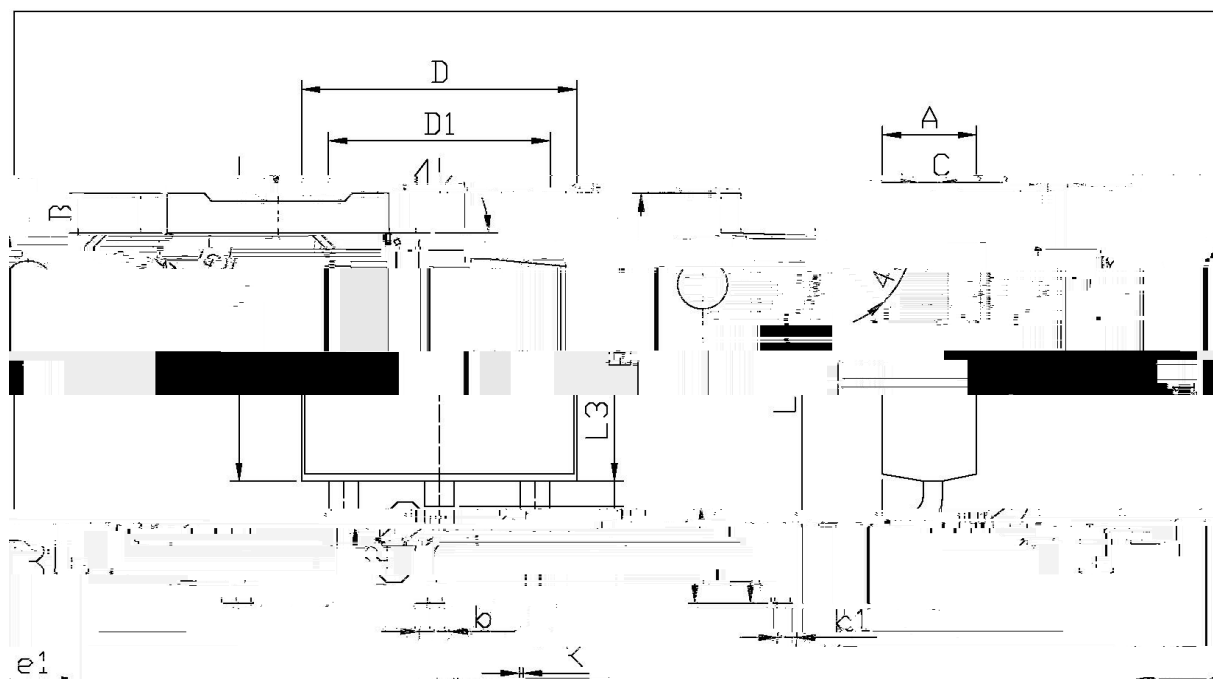
Electrical Characteristic Curve



Electrical Characteristic Curve



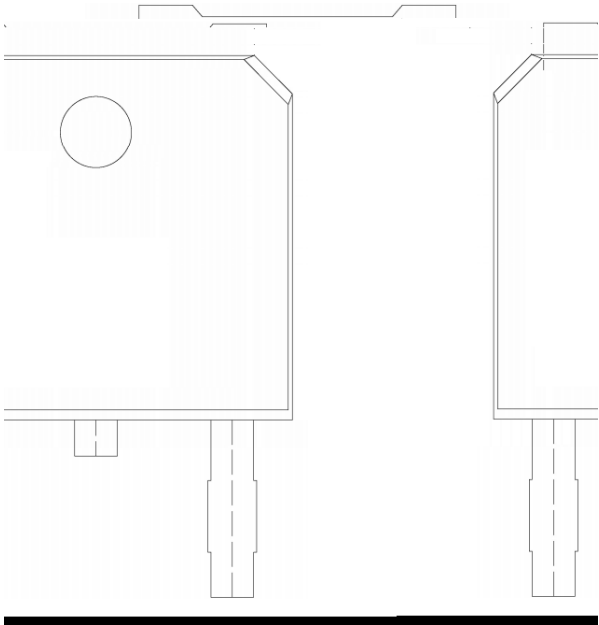
Ø α =) ¢ / Package Dimensions



单位: mm

T0-252

, M y f / Marking Instructions



^a ϕ y
BR y , [W A
8 : y ° Z W A
y ŷ D Z W A k š ŷ D Z J
Note:
BR:

