

BRCS700P10DP

Rev.C Aug.-2023

/ Descriptions

TO-252 P MOS

P-CHANNEL MOSFET in a TO-252 Plastic Package.

/ Features

$V_{DS}(V)=-100V$ $I_D=-22A$

$R_{DS(ON)}@-10V<70m\Omega$ (Typ.67mR)

$R_{DS(ON)}@-4.5V<85m\Omega$ (Typ.70mR)

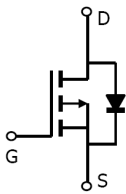
HF Product.

/ Applications

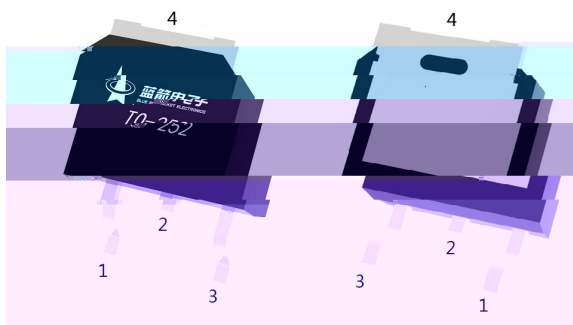
DC/DC

Power Management of Industrial DC/DC Converter.

/ Equivalent Circuit



/ Pinning



PIN1 G

PIN 2 D

PIN 3 S

PIN 4 D

/ Marking

See Marking Instructions.



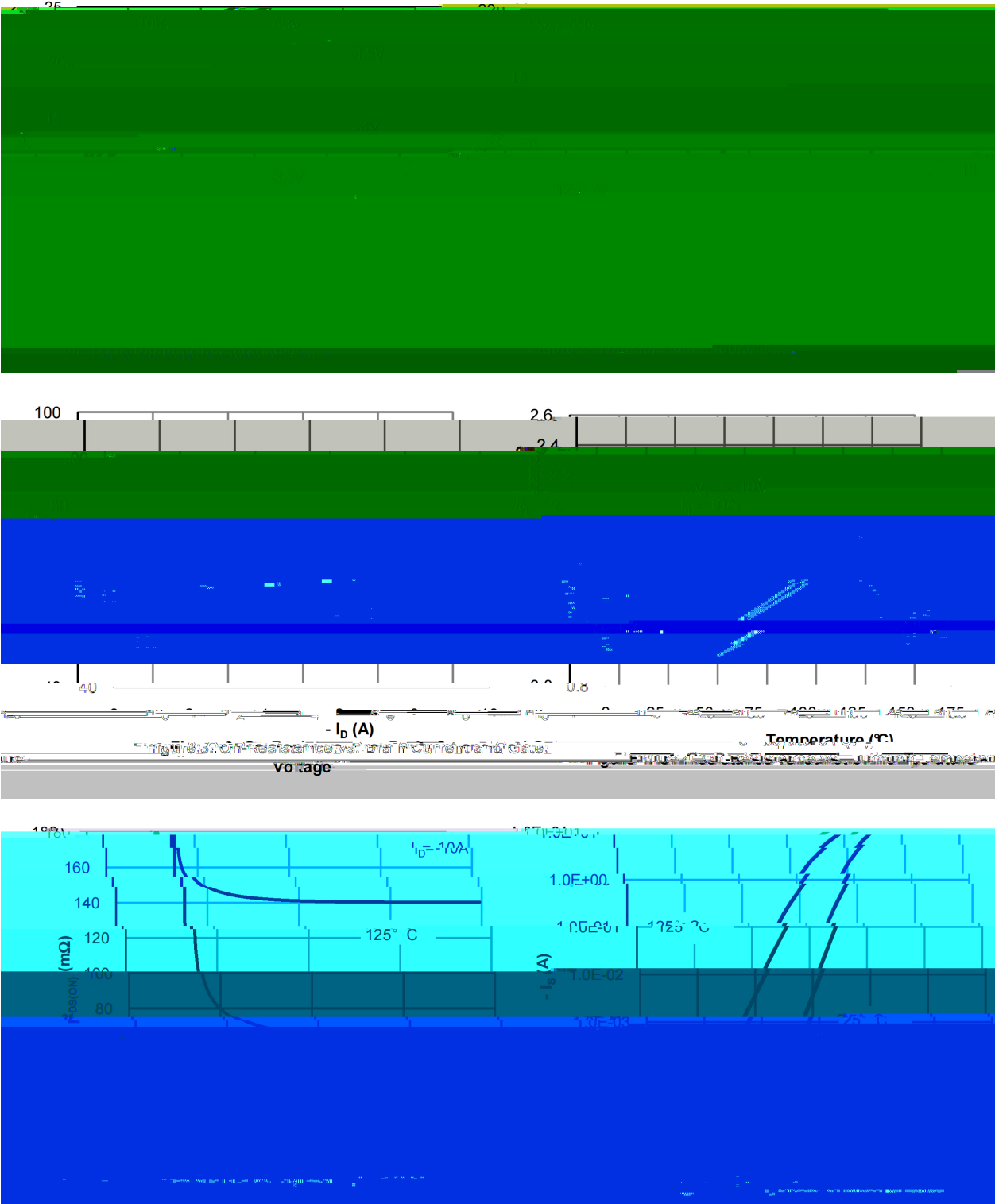
Parameter	Symbol	Rating	Unit
	V_{DS}	-100	V
Drain Current - Continuous	$I_D(T_c=25^\circ\text{C})$	-22	A
Drain Current – Pulsed	I_{DM}	-66	A
Gate-Source Voltage	V_{GS}	+20	V
Power Dissipation	$P_D(T_c=25^\circ\text{C})$	75	W
Single Pulse Avalanche Energy($L=0.5\text{mH}$)	E_{AS}	176.4	mJ

Avalanche Current

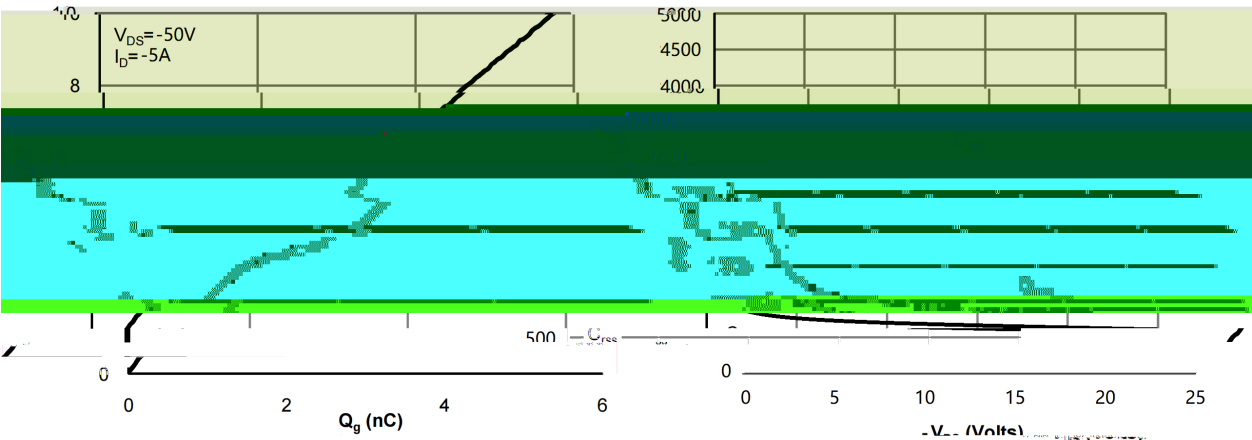
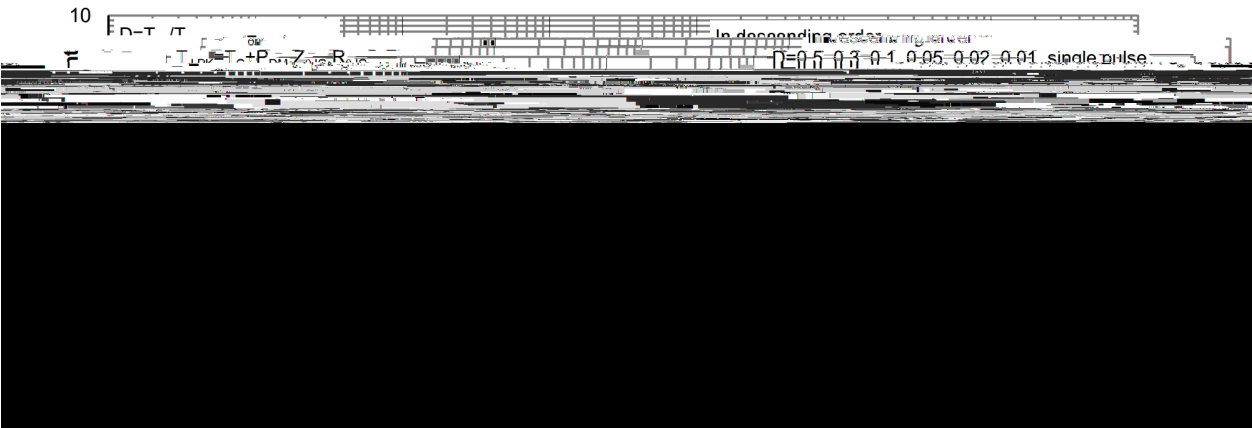
/ Electrical Characteristics(Ta=25)

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Turn-On Delay Time	$t_{d(on)}$	$V_{GS}=-10V$ $V_{DS}=-50V$ $R_L=10\Omega$ $R_{GEN}=3\Omega$		6		ns
Turn-On Rise Time	t_r			2.4		
Turn-Off Delay Time	$t_{d(off)}$			19		
Turn-Off Fall Time	t_f			2.6		

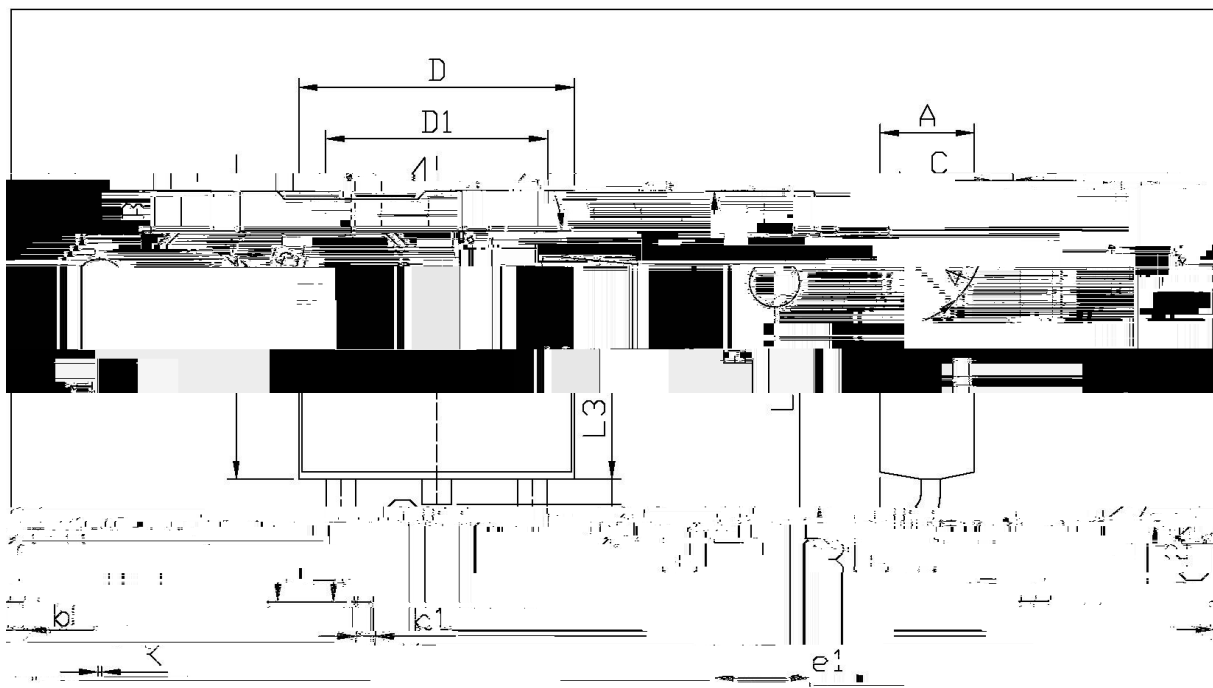
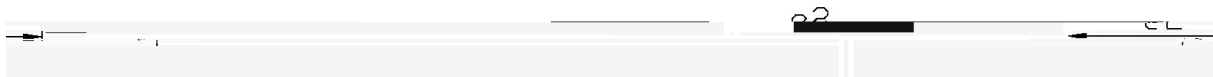
/ Electrical Characteristic Curve



/ Electrical Characteristic Curve



/ Package Dimensions

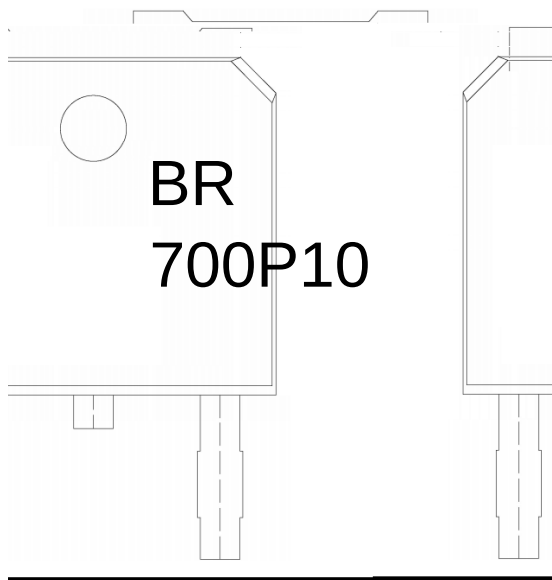


单位: mm

TO-252



/ Marking Instructions



BR

700P10

Note:

BR: Company Code

700P10: Product Type

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

BRCS700P10DP