

BRCS500P10DP

Rev.A Aug.-2023

/ Descriptions

TO-252 P MOS

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

/ Features

$V_{DS}(V)=-100V$ $I_D=-28A$

$R_{DS(ON)}@-10V<50m\Omega$ (Typ.42mR)

$R_{DS(ON)}@-4.5V<55m\Omega$ (Typ.45mR)

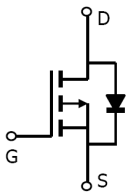
HF Product.

/ Applications

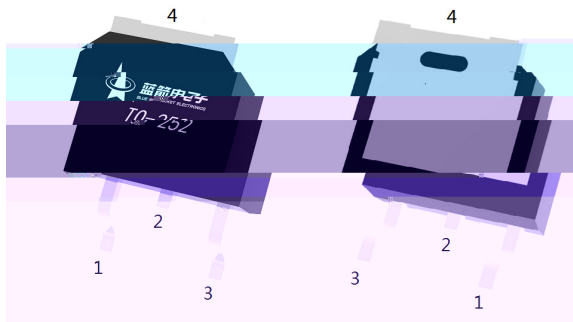
DC/DC

Power Management of Industrial DC/DC Converter.

/ Equivalent Circuit



/ Pinning



PIN1 G

PIN 2 D

PIN 3 S

PIN 4 D

/ Marking

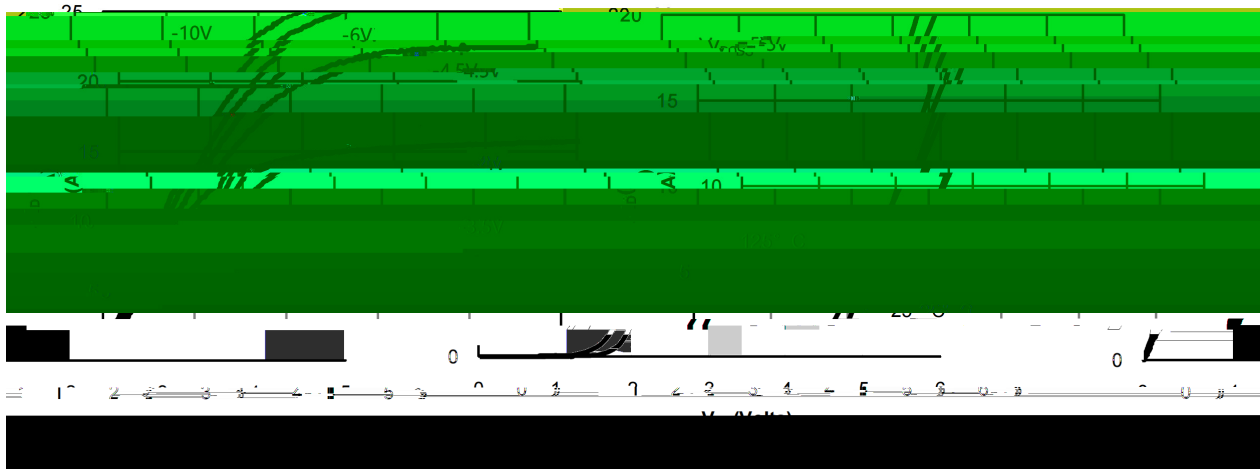
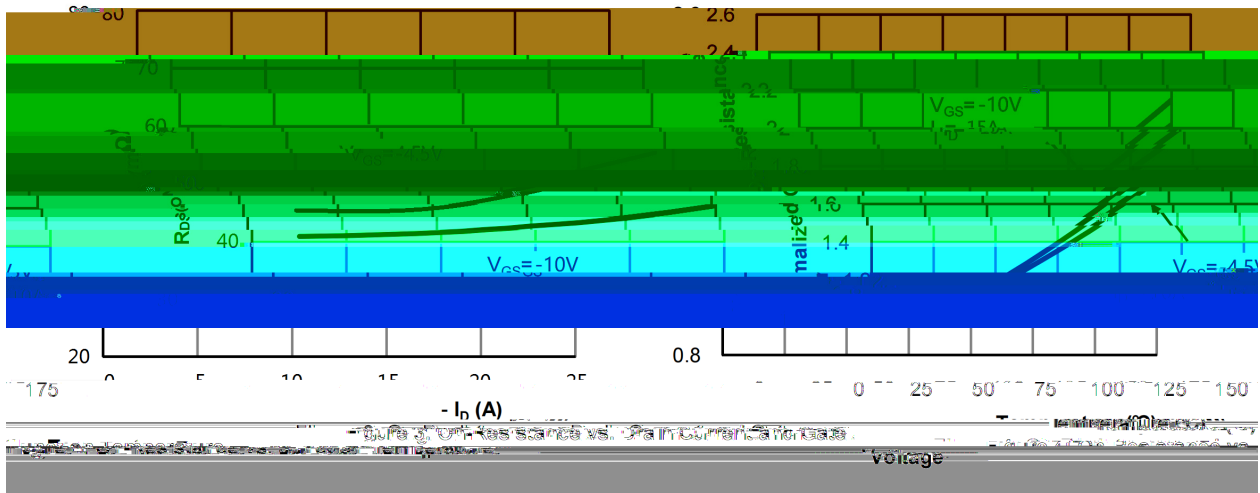
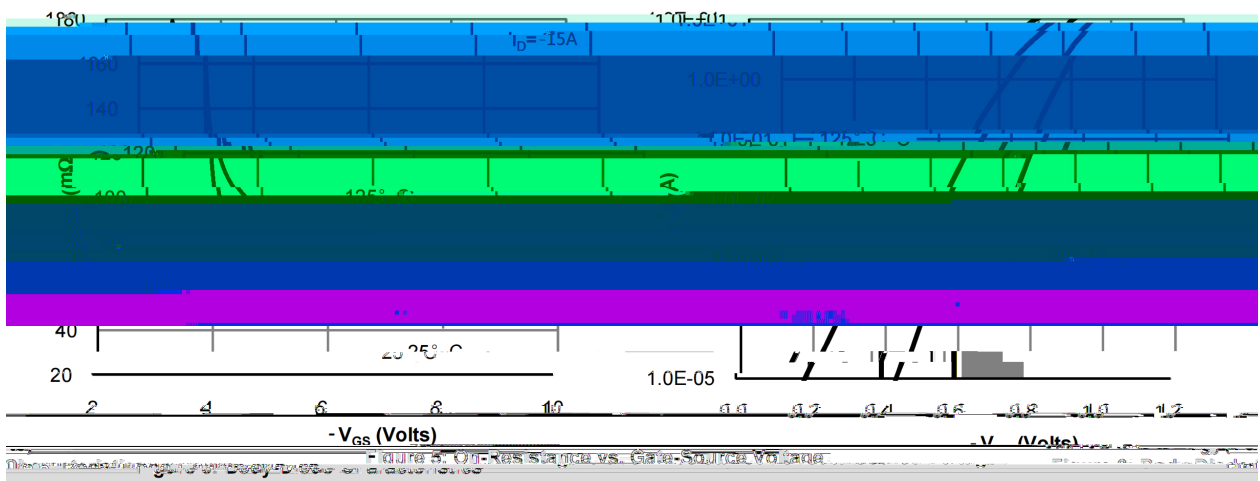
See Marking Instructions.

Parameter	Symbol	Rating	Unit
Drain-Source Voltage	V		

/ 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

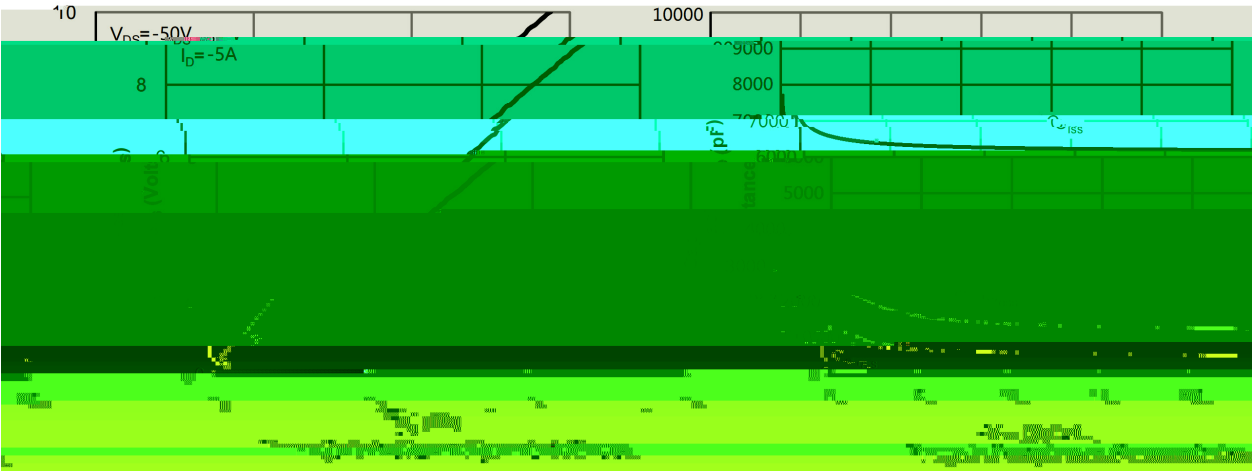
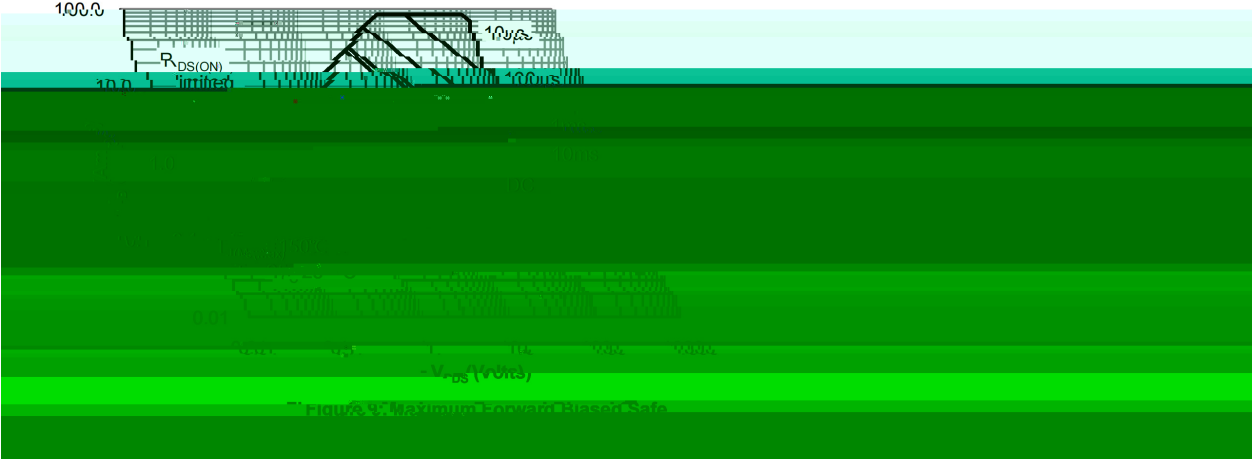
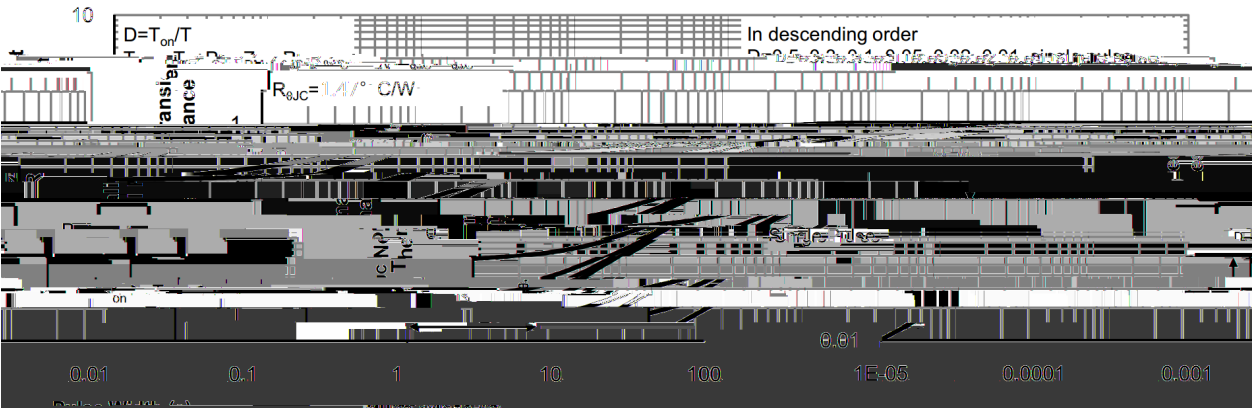
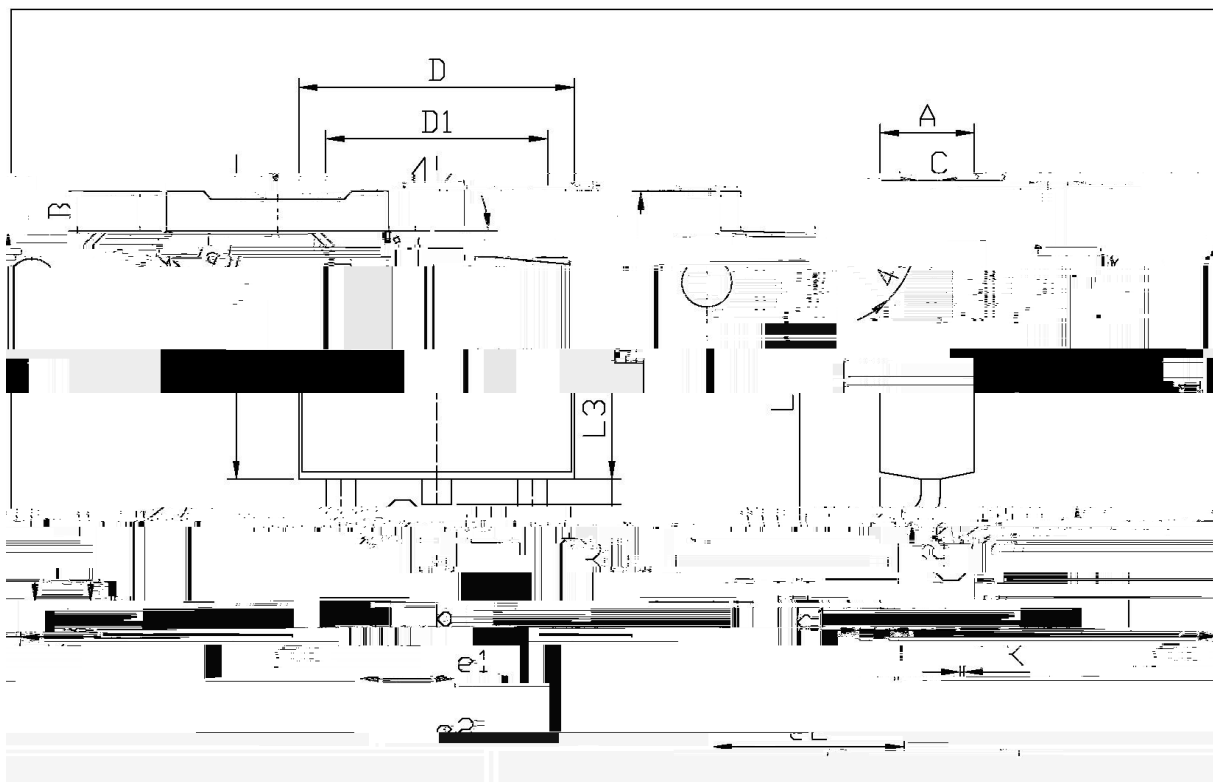


Figure10: Normalized Maximum Transient Thermal Impedance

/ Package Dimensions

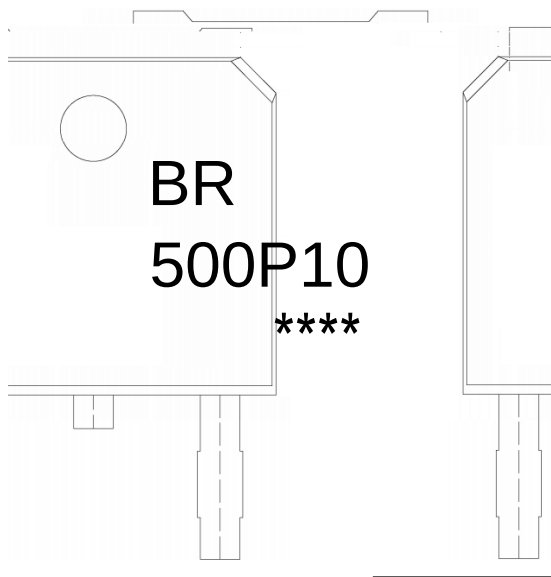


单位: mm

[illegible]

T0-252

/ Marking Instructions



BR

500P10

Note:

BR: Company Code

500P10: Product Type

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

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