

5 é / Descriptions

TO-252 .> // x 6 ?ú 3 « | • 'ož
P-CHANNEL MOSFET in a TO-252 Plastic Package.

□ ª / Features

$V_{DS} (V) = -40V$ $I_D = -27.5 A$ ($V_{GS} = -20V$)
 $R_{DS(ON)}@10V$ 0.35mR(Typ.33mR)
 $R_{DS(ON)}@4.5V$ 0.60mR(Typ.40mR)
—)í D } ÄHF Product.

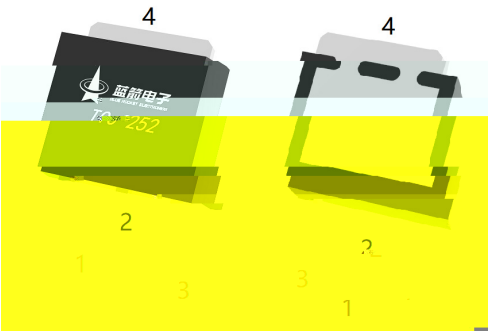
Đ ÷ / Applications

9 z 9 è ò y V ñ è o • *) *) ô E o • Ž ` " D } > ä | ô E o ž
Suited for low voltage applications such as automotive, DC/DC Converters, and high efficiency switching for power management in portable and battery operated products.

Ã W] Ô · / Equivalent Circuit



• Ů - æ / Pinning



PIN1 y G PIN 2 y D PIN 3 y S PIN 4 y D

, M V / Marking

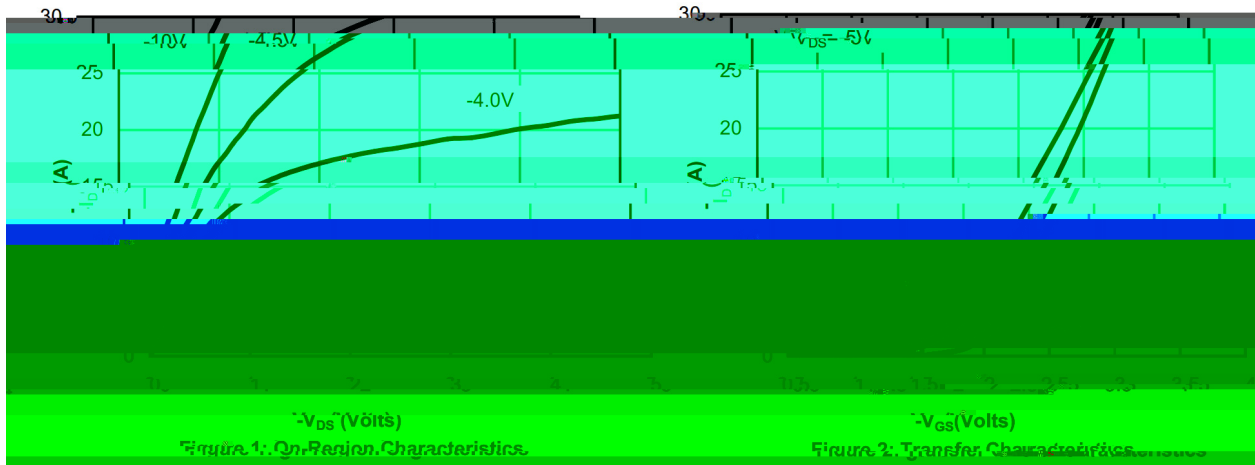
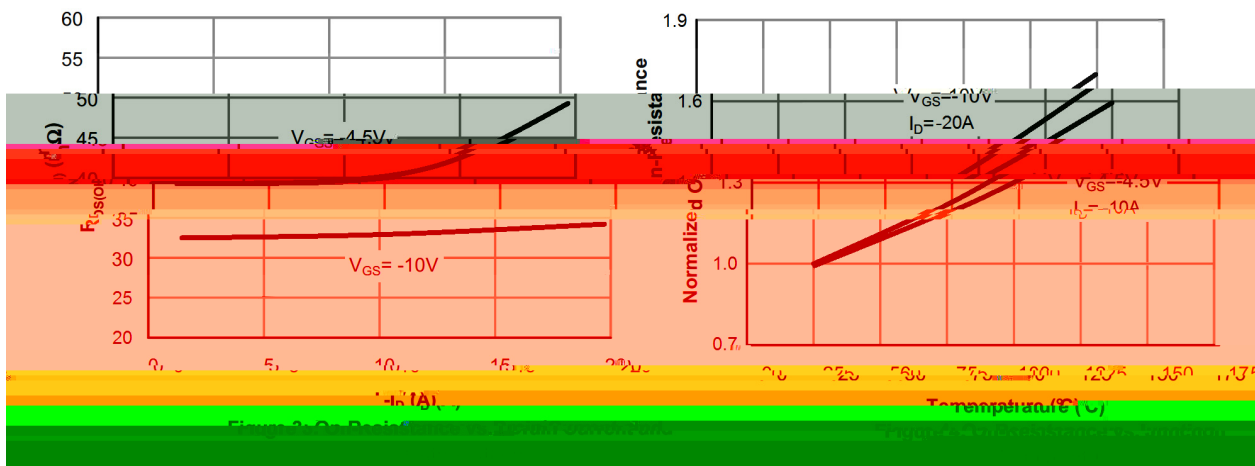
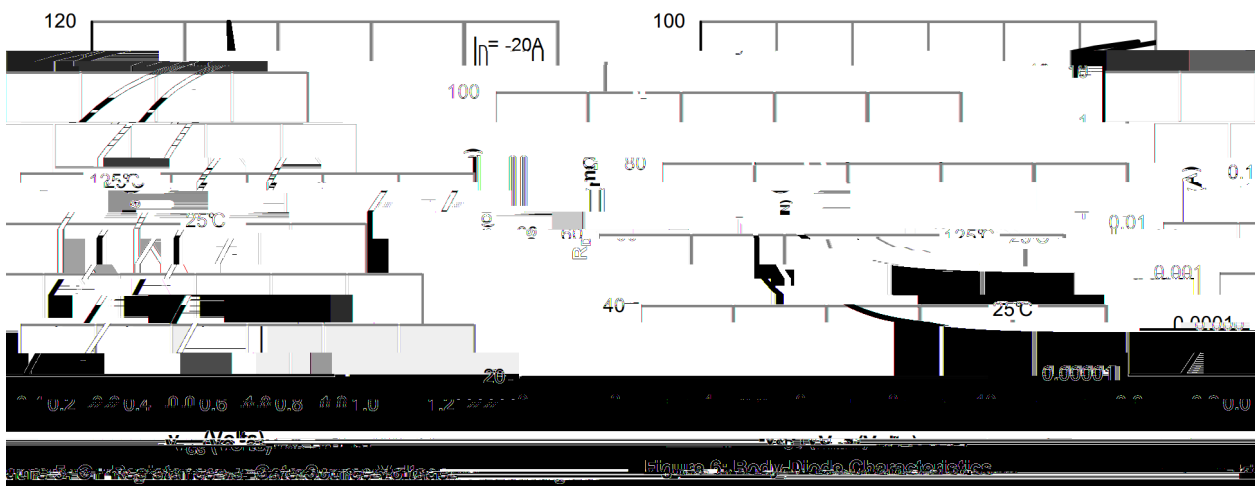
• - ~ ª ¢ o ž
See Marking Instructions.

@ f Parameter	... Z Symbol	f > Rating	% y Unit
Drain-Source Voltage	V _{DSS}	-40	V
Drain Current	I _D (T _c =25)	-27.5	A
Drain Current - Pulsed	I _{DM}	-87	A
Gate-Source Voltage	V _{GS}	±20	V
Avalanche Current	I _{AS}	13	A
Single Pulsed Avalanche Energy ÄL=0.5mH Å	E _{AS}	54	Pow

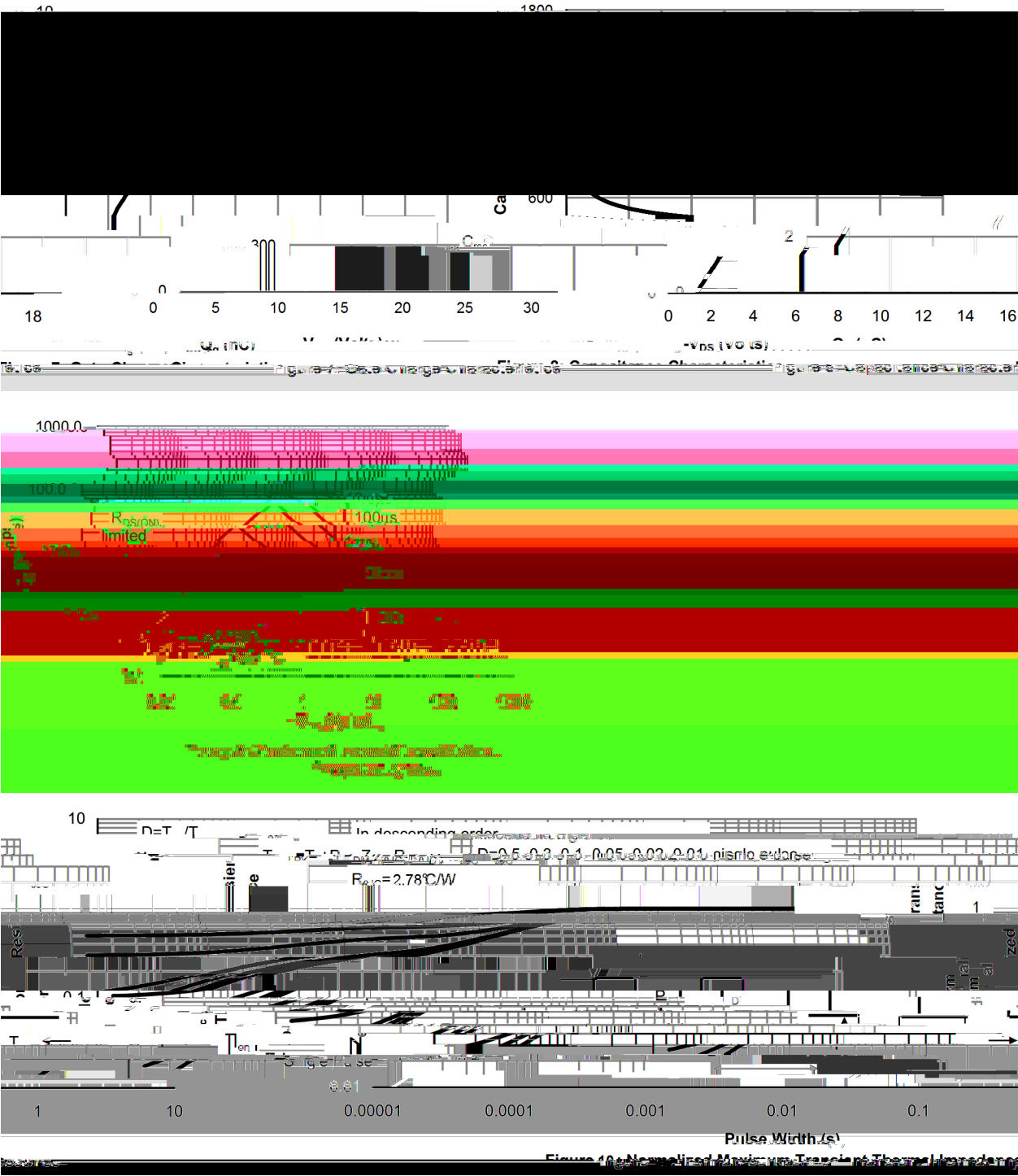
-1Dissip4

@ f Parameter	... Z Symbol	y i Ú ^ Test Conditions	Â 4 > Min	Á ° > Typ	Â Ý > Max	% y Unit
Turn-On Delay Time	t _{d(on)}	V _{GS} =-10V V _{DS} =-20V R _L =1.6 j R _{GEN} =3				

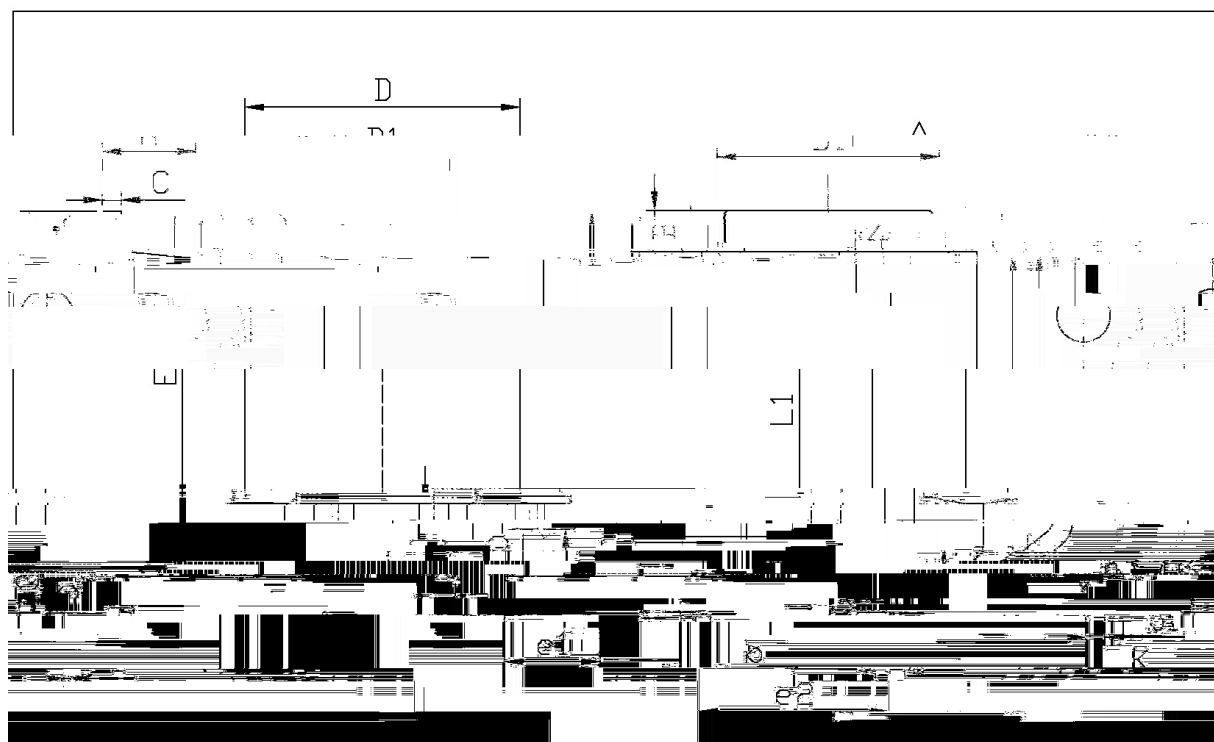
Electrical Characteristic Curve



Electrical Characteristic Curve



Ø α =) ¢ / Package Dimensions

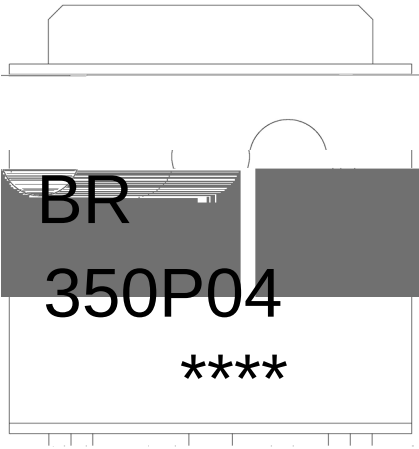


单位: mm

Symbol 1		Symbol 2	
Max	Min	Max	Min
6.25	3.30	2.40	5.95
0.50	0.90	0.20	0.70
0.45	0.55	0.45	0.95
0.60	0.60	0.45	0.75
5.16	5.56	0.00	0.00

FD-302 (Rev. 11-27-70)

, M y f / Marking Instructions

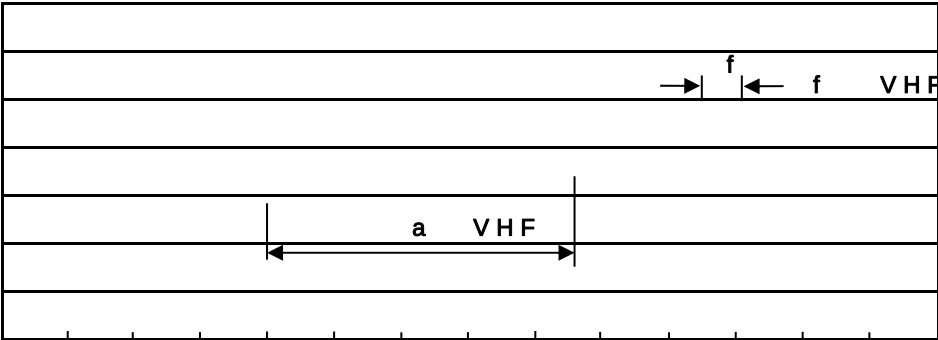


^ ¢ y
BR y , [W A
350P04 y ° Z W A
y ŷ D Z W A k š ŷ D Z J

Note:

BR: Company Code
350P04: Product Type Code
****: Lot No. Code, code change with Lot No

šWD t...•Žč (x/) / :KSVKXGZ[XK 6XULORK LUX /8 8KLRU] 9URJKXOTM 6



a ç y

- 10• Ä ½ “ † 150 ½180 - k ž • 60 ½90sec;
- 20• Q > “ † 245 r5 - k ž • 4 Ò 5 r0.5sec;
- 30•D N ò i Ò 0 , † 2 ½10 - /sec.

- Note:
- 1.Preheating:150~180 - , Time:60~90sec.
 - 2.Peak Temp.:245 r5 - , Duration:5 r0.5sec.
 - 3. Cooling Speed: 2~10 - /sec.

ÂD /Cã p ¯ »] / Resistance to Soldering Heat Test Conditions

“ † y 260 r5 - ž • y 10 r1 sec. Temp.:260±5 Time:10±1 sec

G P á / Packaging SPEC.

2 & x / REEL

Package Type 7>û ~ E	Units ;>û H					Dimension ;>û p . (unit Åmm³)		
	Units/Reel /-	Reels/Inner Box -- /-	Units/Inner Box /-	Inner Boxes/Outer Box - /1ç	Units/Outer Box /1ç	Reel	Inner Box	Outer Boxç
TO-252	2,500	2	5,000	6	30,000	13 s ×16	360×360×50	380×335×366

ì ' x / TUBE

Package Type 7>û ~ E	Units ;>û H					Dimension ;>û p . (unit Åmm³)		
	Units/Tube /•1×	Tubes/Inner Box •1× /-	Units/Inner Box /-	Inner Boxes/Outer Box - /1ç	Units/Outer Box /1ç	Tube•1×	Inner Box	Outer Boxç
TO-251/252	75	48	3,600	5	18,000	526×20.5×5.25	555×164×50	575×290×180

„ Ð y f / Notices