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} = f 20V)

$R_{DS(ON)}$@10V 0 35mR(Typ.33mR)

$R_{DS(ON)}$@4.5V 0 60mR(Typ.40mR)

—)í D } ÄHF Product.

Đ ÷ / Applications

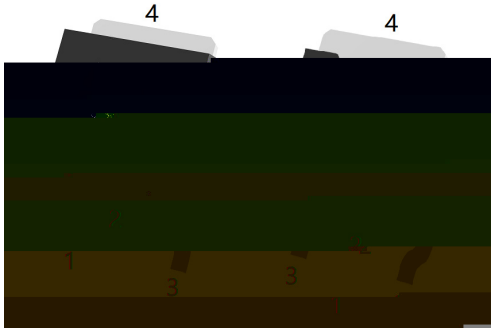
9 z 9 è ò y V ñ èo• *) *) ô Eo• Ž ` ” D } › ä | ô Eož

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



• Û - æ / Pinning



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

, M V / Marking

• - ~ ª ¢ož

See Marking Instructions.

@ ƒ Parameter	… Z Symbol	ƒ › Rating	% y Unit
Drain-Source Voltage	V_{DSS}	-40	V
Drain Current	I_D(Tc=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

@ ƒ Parameter	… Z Symbol	y ¡ Ú ^ Test Conditions	Â 4 › Min	Á º › Typ	Â Ý › Max	% y Unit
Turn-On Delay Time	$t_{d(on)}$	V_{GS}=-10V V_{DS}=-20V R_L=1.6 ¡ R_{GEN}=3				

Ô ? d • Ž ¢ / Electrical Characteristic Curve

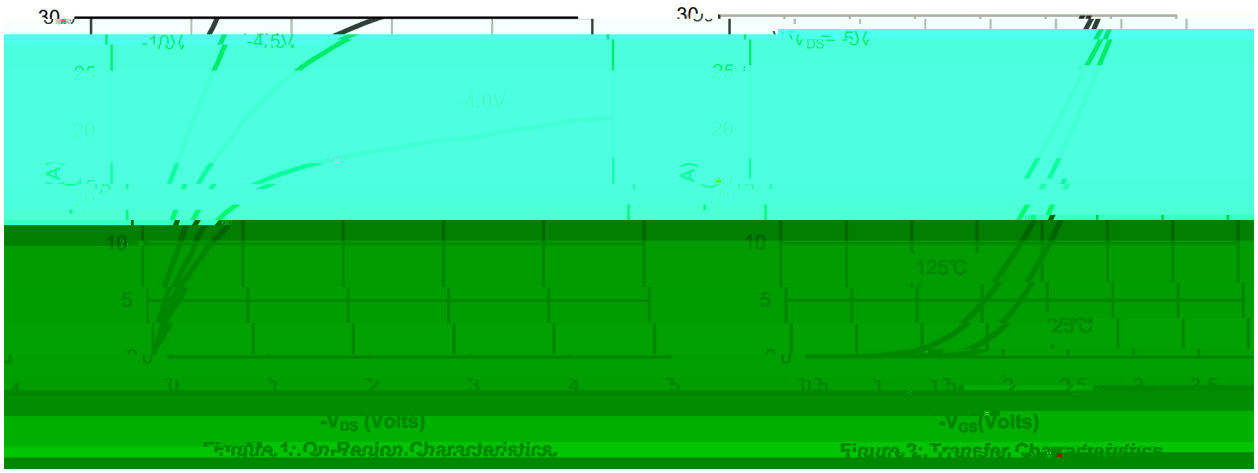
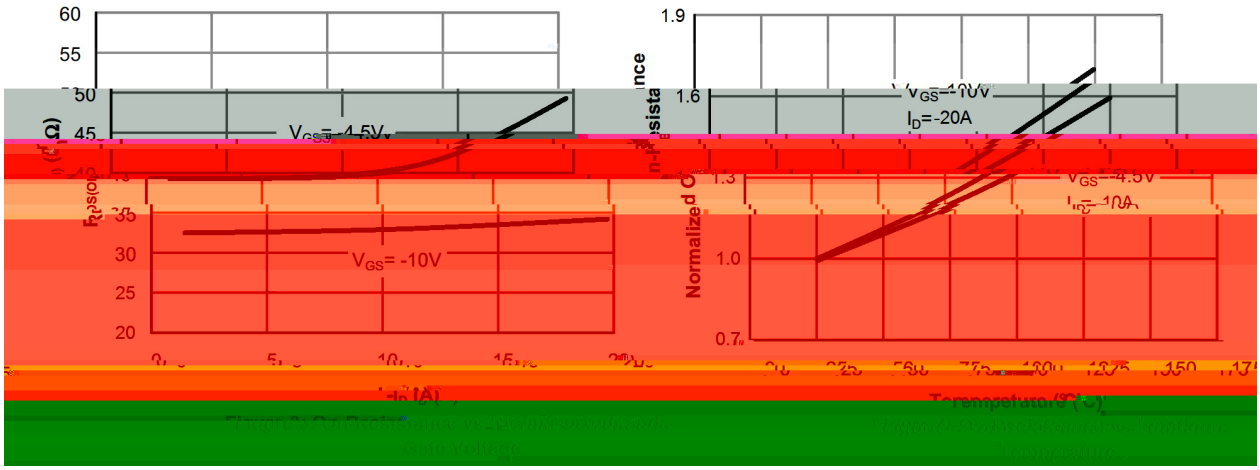
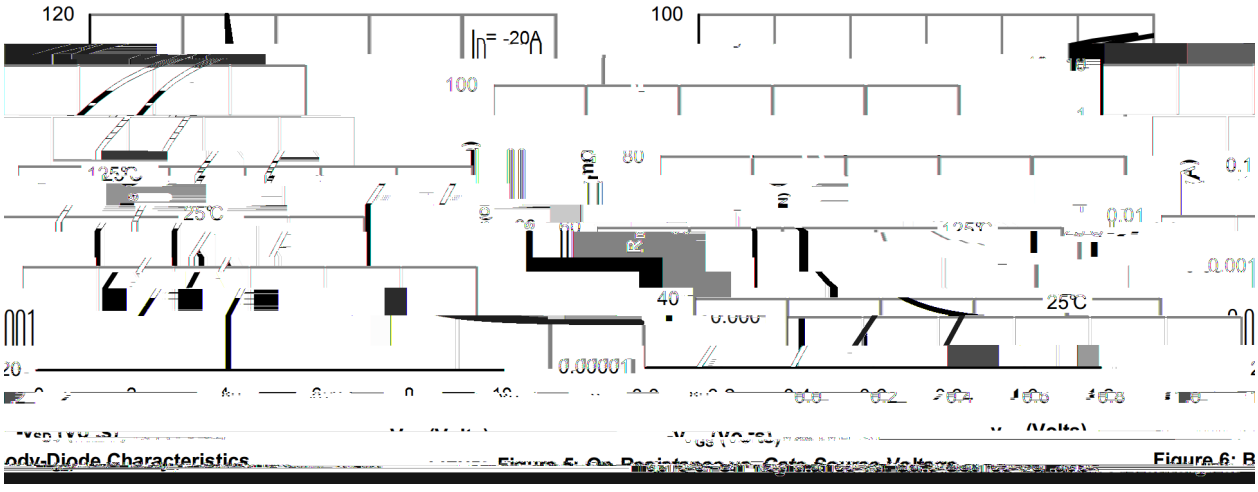


Figure 1: On-Region Characteristics

Figure 2: Transfer Characteristics



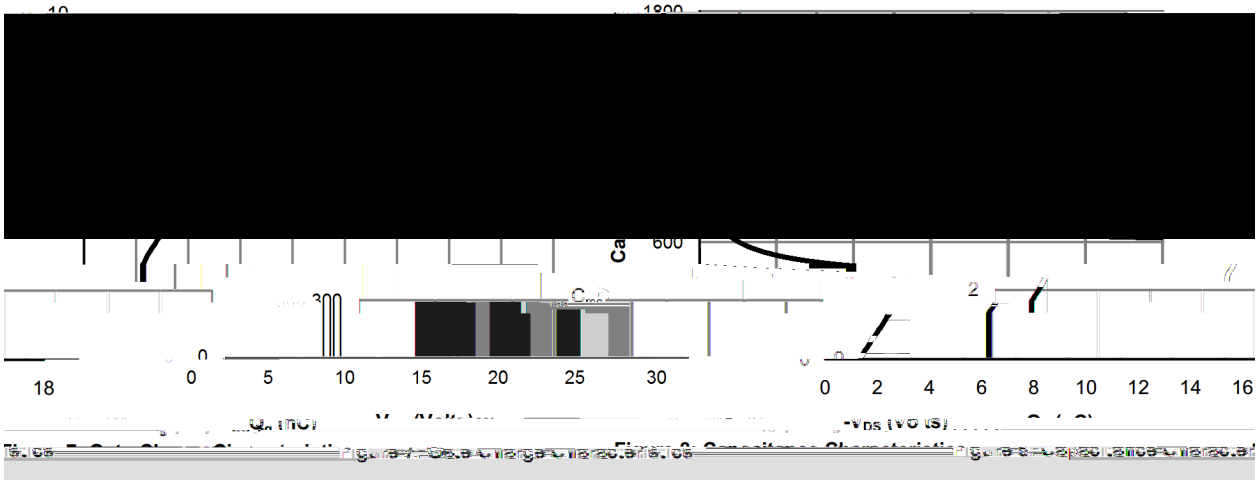


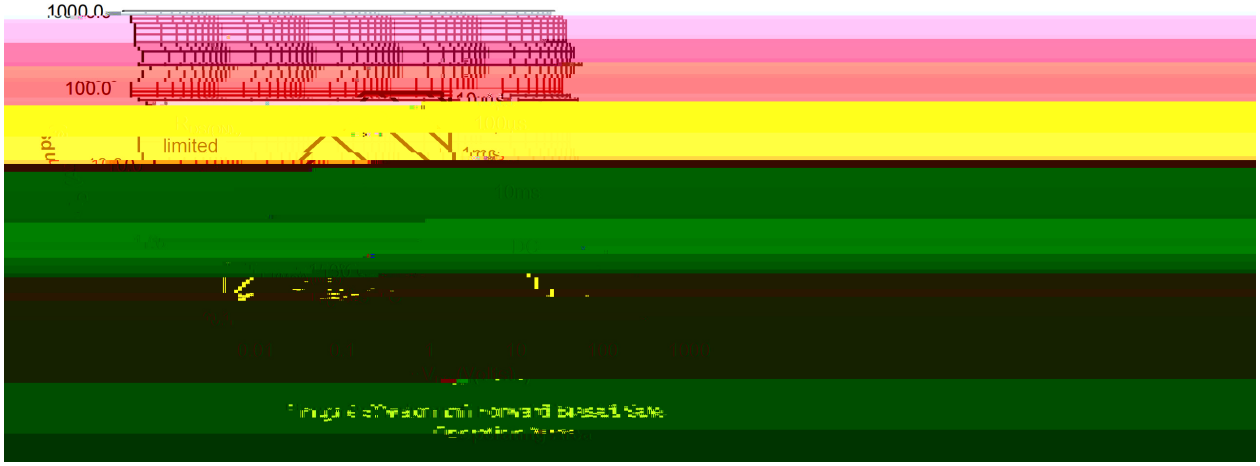
ody-Diode Characteristics

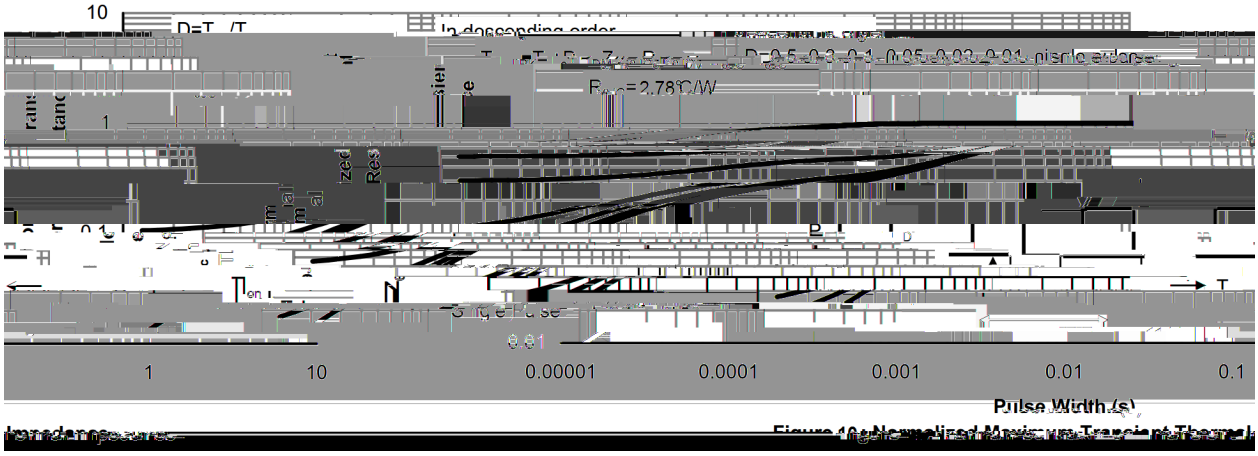
Figure 5: On-Resistance vs. Gate-Source Voltage

Figure 6: B

Ô ? d • Ž ¢ / Electrical Characteristic Curve







Ø ¤ =) ¢ / Package Dimensions

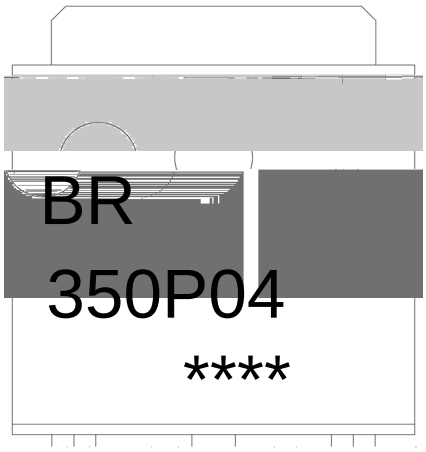


单位：mm

Symbol	Min	Max	Symbol	Min	Max
		6.25	A	2.20	2.40
b	0.50	0.90	e2	4.43	4.73
b1	0.45	0.55	L1	9.45	9.95
		0.60			
D1	5.10	5.50	K	0.000	

TO-252

, M y ƒ / Marking Instructions



ª ¢ y

BR y ¸ [W A

350P04 y º Z W A

y ÿ D Z W A k š ÿ D Z J

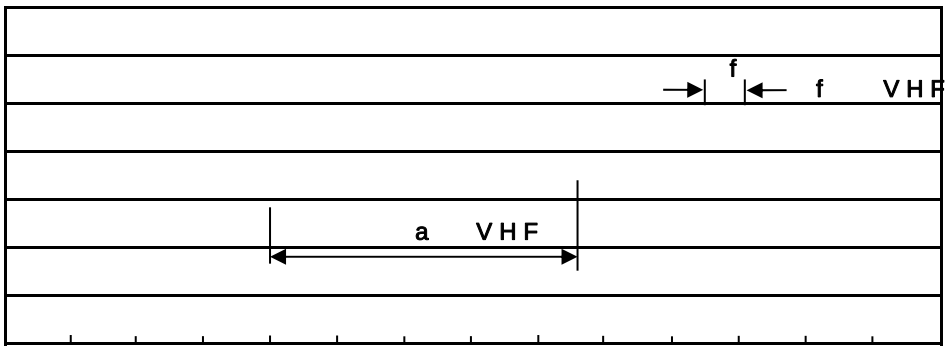
Note:

BR: Company Code

350P04: Product Type Code

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

š WD t … • Ž ¢ (x /) / : K S V K X G Z [X K 6 X U L O R K L U X / 8 8 K L R U] 9 U R J K X O T M 6



ª ¢ y

1o• Ä ½ “ † 150 ½180 - k ž • 60 ½90sec;

2o• Q › “ † 245 r5 - k ž • 4 Ò 5 r0.5sec;

3o•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 Æmm³)		
	Units/Reel / --	Reels/Inner Box -- /-	Units/Inner Box /-	Inner Boxes/Outer Box - /1ç	Units/Outer Box /1ç	Reel	Inner Box×	Outer Box1ç
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 Æmm³)		
	Units/Tube / •1×	Tubes/Inner Box •1× /-	Units/Inner Box /-	Inner Boxes/Outer Box - /1ç	Units/Outer Box /1ç	Tube •1×	Inner Box×	Outer Box1ç
TO-251/252	75	48	3,600	5	18,000	526×20.5×5.25	555×164×50	575×290×180

„ Ð y ƒ / Notices