

Features

- Low gate charge
- 100% avalanche tested
- Improved dv/dt capability
- RoHS compliant
- Halogen free package
- JEDEC Qualification

Absolute Maximum Ratings

Parameter	Symbol	TMP16N60A(G)	TMPF16N60A(G)	Unit	
Drain-Source Voltage	V_{DSS}	600		V	
Gate-Source Voltage	V_{GS}	30		V	
Continuous Drain Current	I_D	$T_C = 25$	16	16 *	A
		$T_C = 100$	9.97	9.97 *	A
Pulsed Drain Current ^(Note 1)	I_{DM}	64	64 *	A	
Single Pulse Avalanche Energy ^(Note 2)	E_{AS}	194		mJ	
Repetitive Avalanche Current ^(Note 1)	I_{AR}	16		A	
Repetitive Avalanche Energy ^(Note 1)	E_{AR}	29		mJ	
Power Dissipation	P_D	$T_C = 25$	290	48	W
		Derate above 25	2.32	0.38	W/
Peak Diode Recovery dv/dt ^(Note 3)	dv/dt	4.5		V/ns	
Operating Junction and Storage Temperature Range	T_J, T_{STG}	-55~150			
Maximum lead temperature for soldering purposes,	T_L	300			

Thermal Characteristics

Parameter	Symbol	TMP16N60A(G)	TMPF16N60A(G)	Unit
Maximum Thermal resistance, Junction-to-Case	$R_{\theta JC}$	0.43	2.6	

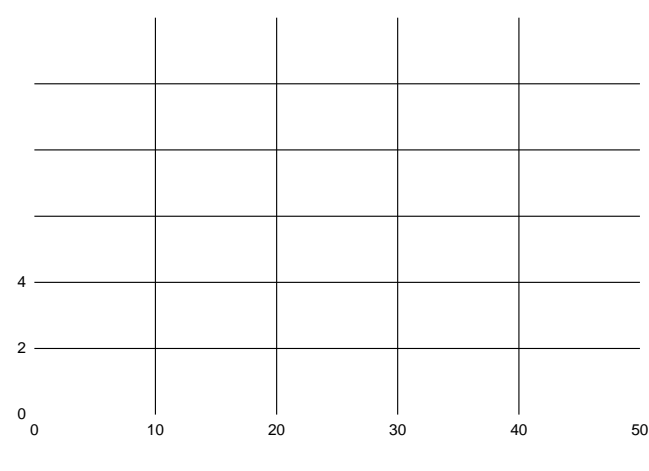
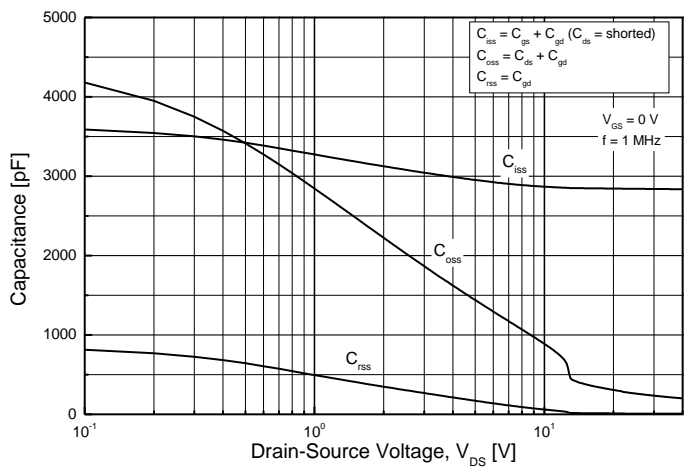
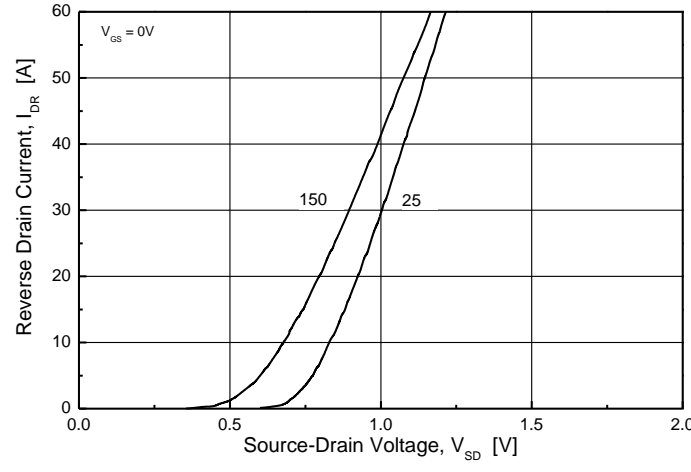
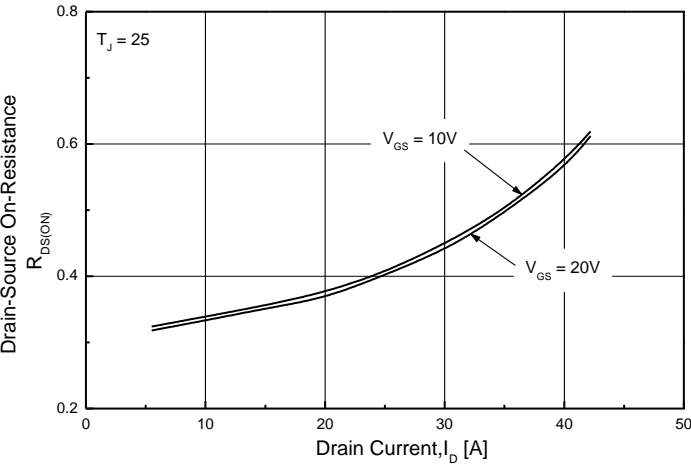
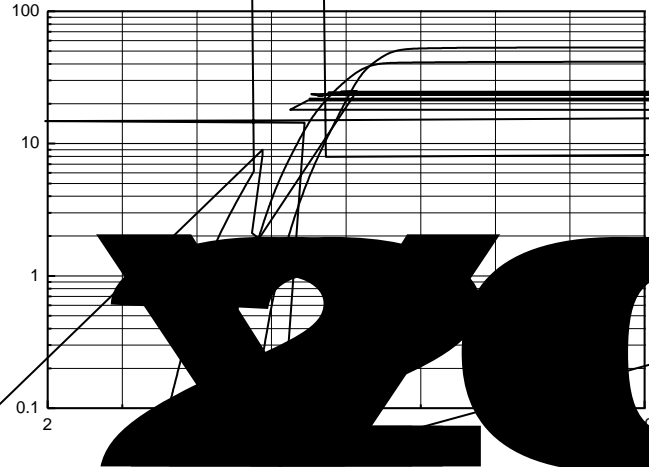
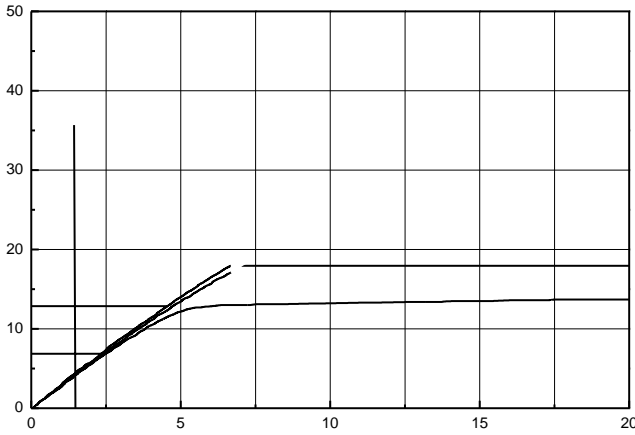


Electrical Characteristics : $T_C=25$, unless otherwise noted

Note :

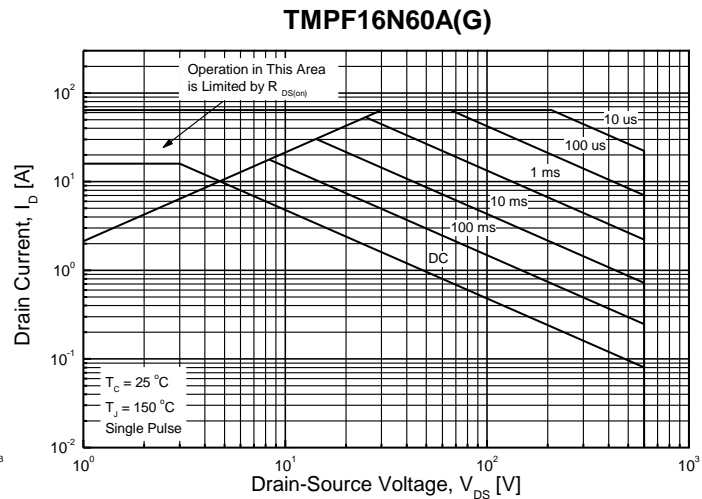
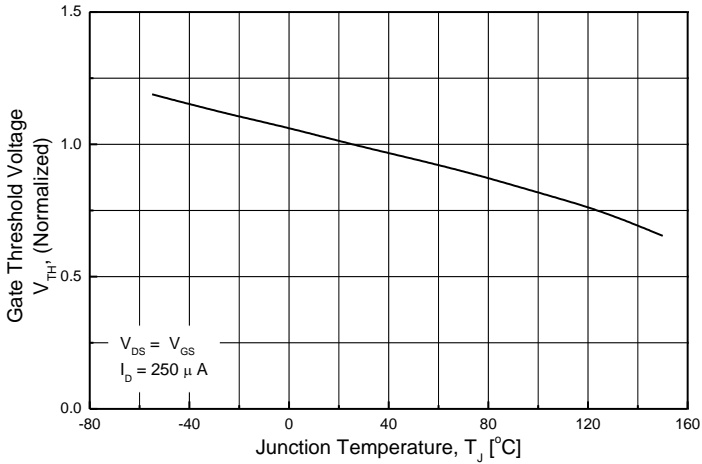
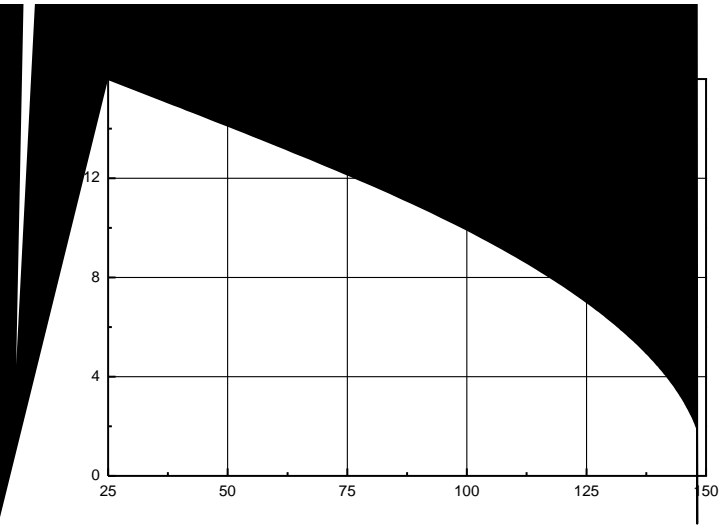
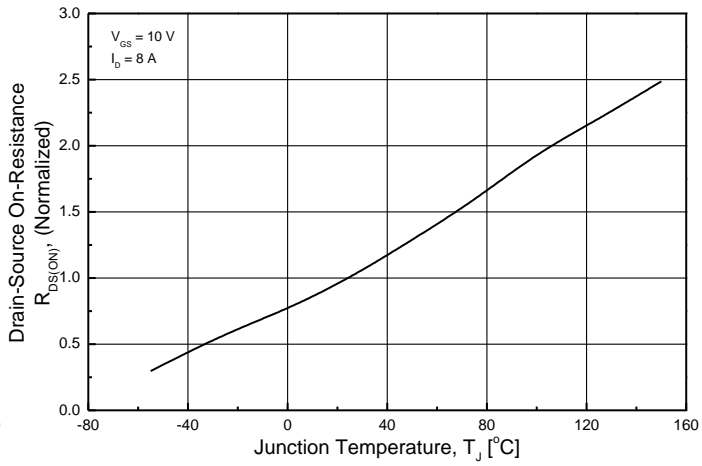
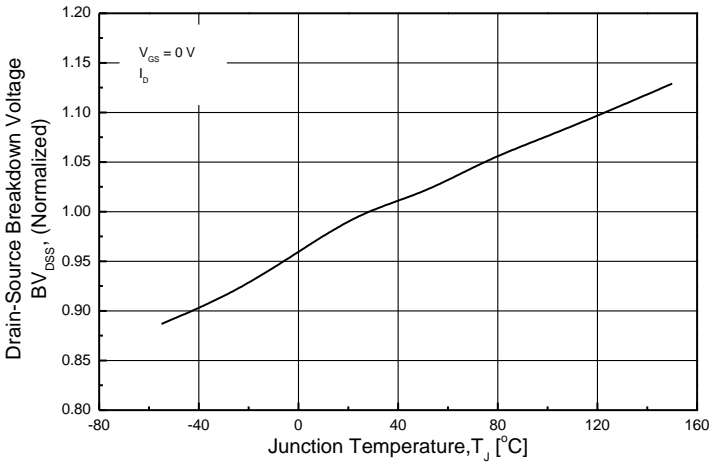


TMP16N60A(G)/TMPF16N60A(G)





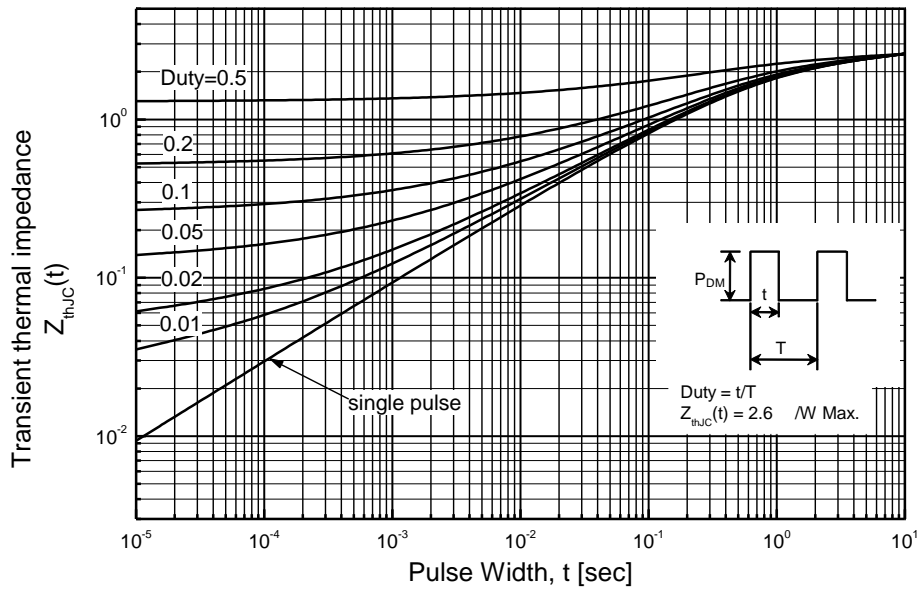
TMP16N60A(G)/TMPF16N60A(G)



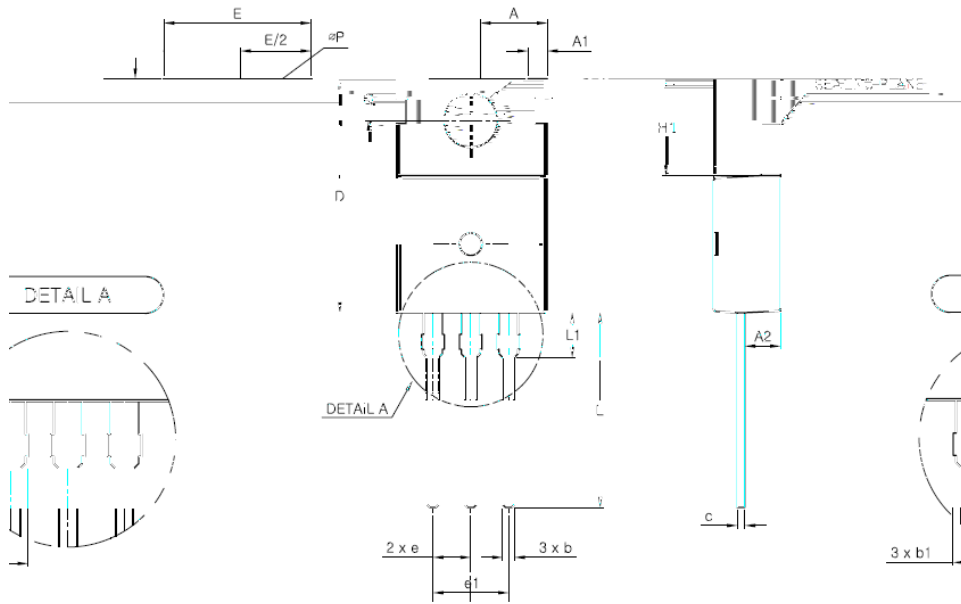
TMP16N60A(G)



TMPF16N60A(G)

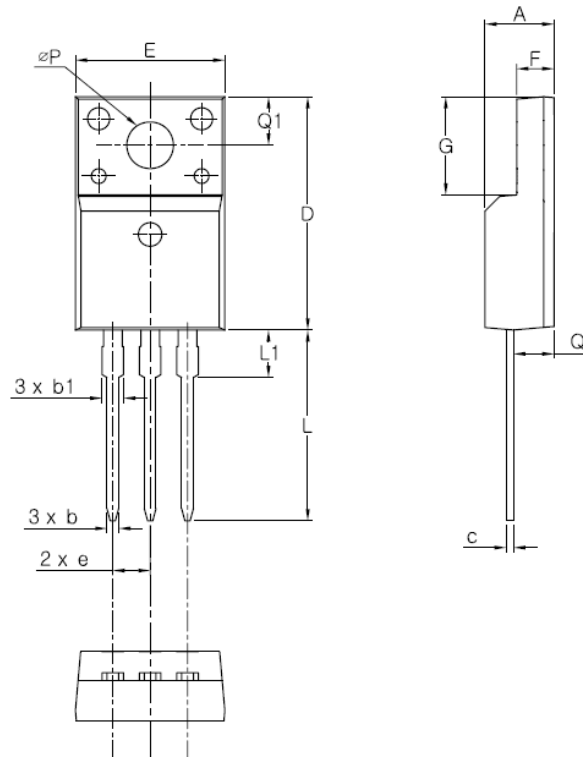


TO-220AB-3L MECHANICAL DATA



SYMBOL	MIN	MAX
A	4.30	4.70
A1	1.22	1.40
A2	2.20	2.79
b	0.70	0.91
b1	1.15	1.62
c	0.36	0.60
D	14.99	15.90
E	9.70	10.41
e	2.54 TYP	
e1	5.08 BSC	
H1	5.97	6.70
L	12.88	13.97
L1	3.31	3.81
ØP	3.40	3.88
Q	2.60	2.90

TO-220F-3L MECHANICAL DATA



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