

Features

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

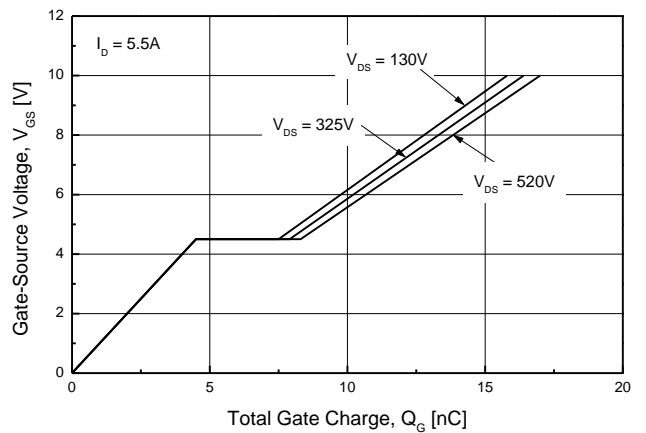
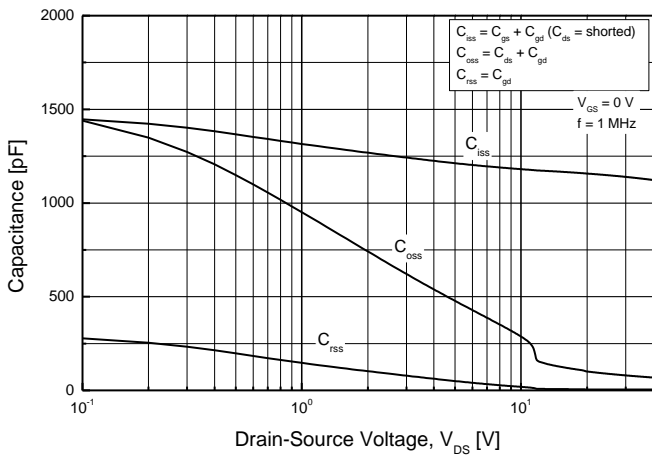
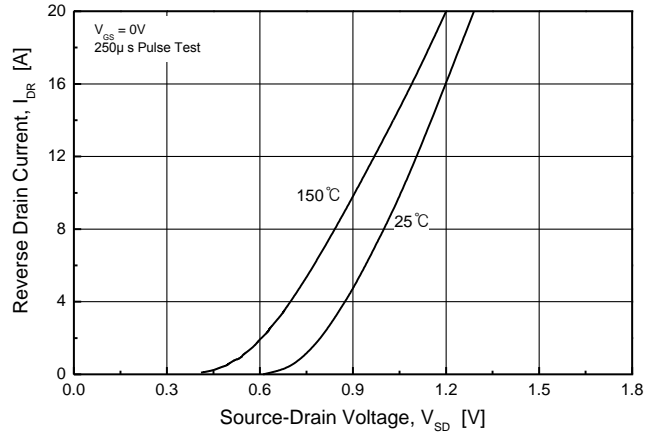
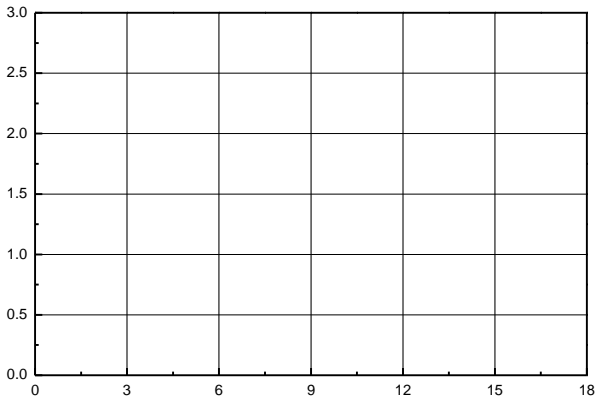
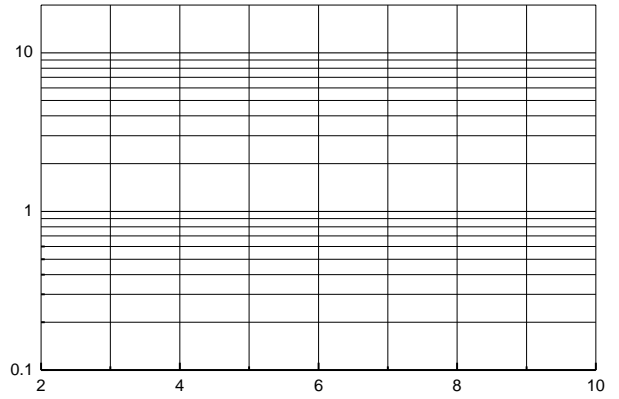
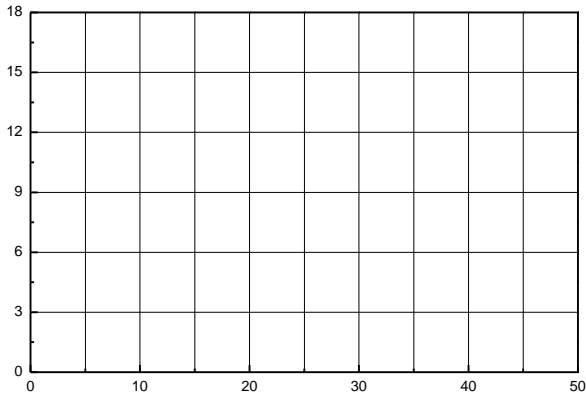
$$V_{DSS} = 715 \text{ V @ } T_{jmax}$$

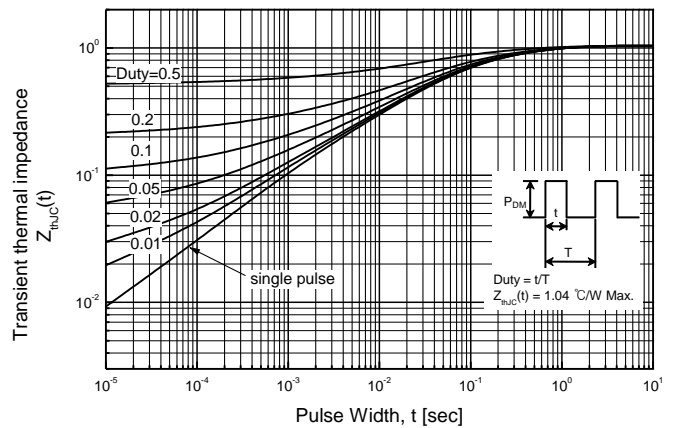
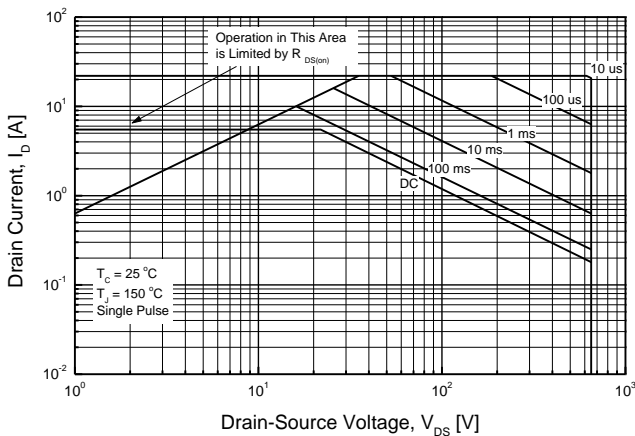
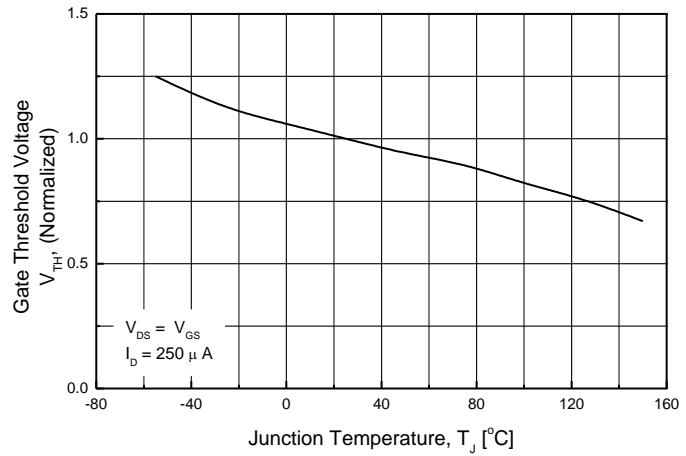
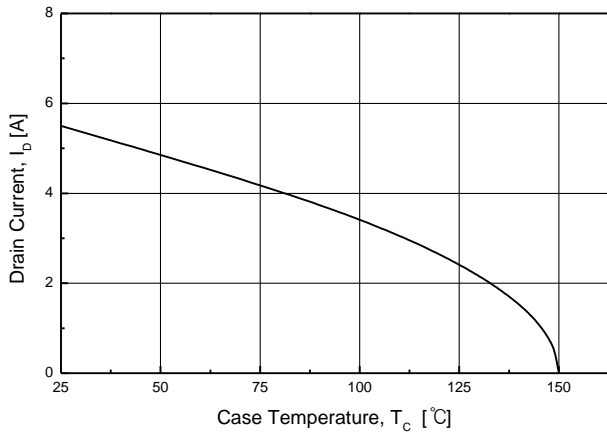
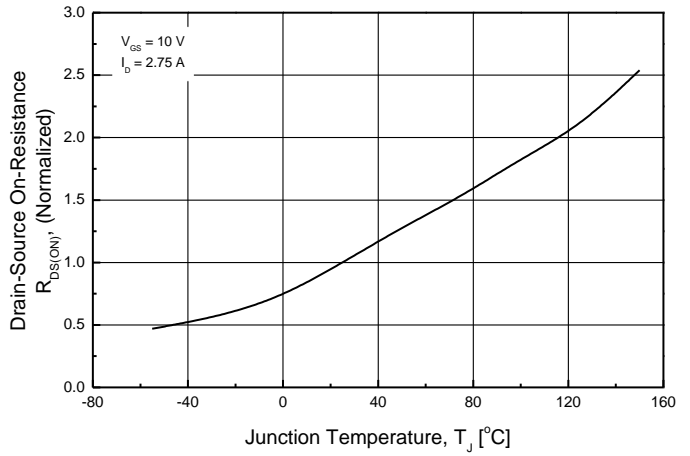
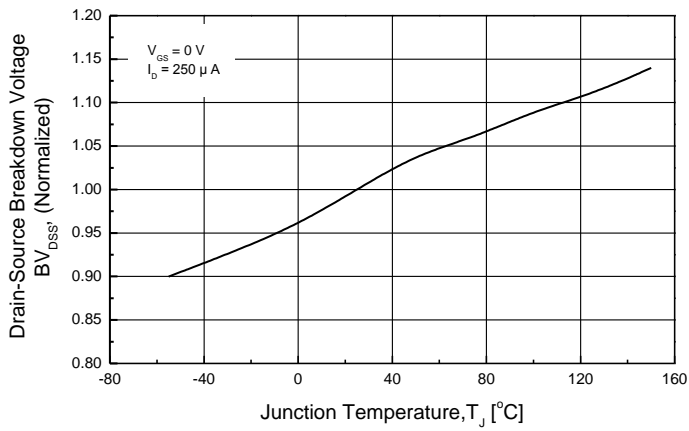
$$I_D = 5.5 \text{ A}$$

$$R_{DS(on)} = 1.6 \text{ } \Omega \text{ (max) @ } V_{GS} = 10 \text{ V}$$

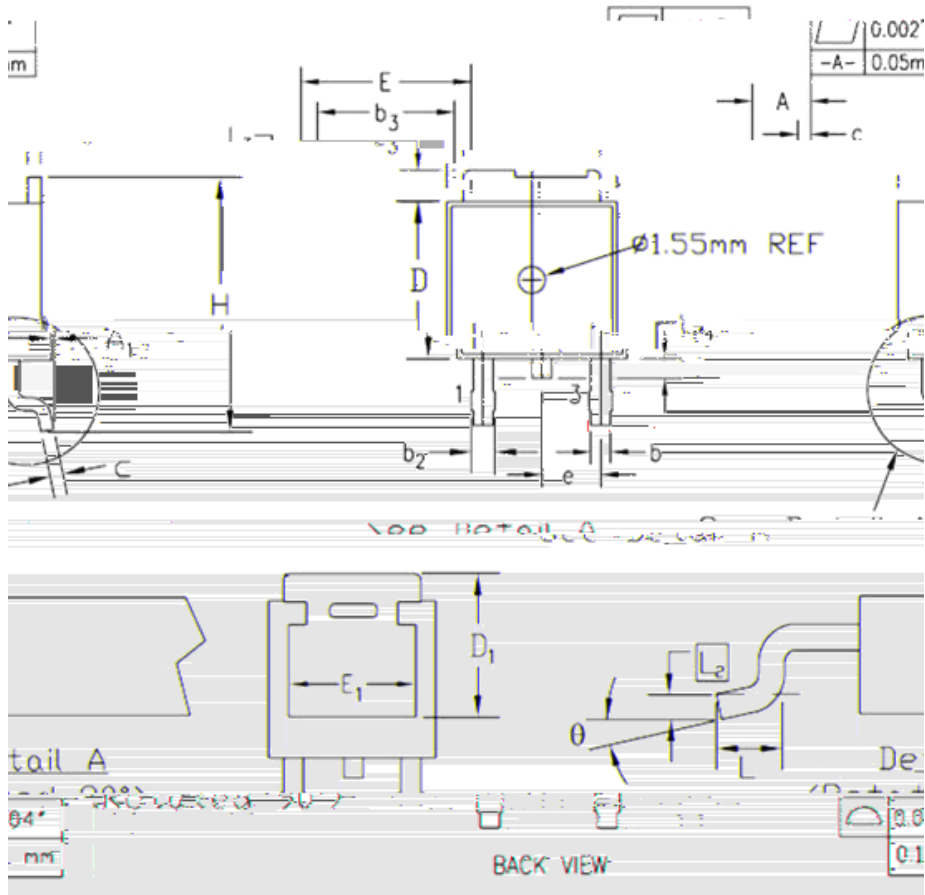
Absolute Maximum Ratings

Parameter	Symbol	TMD6N65(G)/TMU6N65(G)	Unit
Drain-Source Voltage	V_{DSS}	650	V
Gate-Source Voltage	V_{GS}	± 30	V
Continuous Drain Current	I_D	$T_C = 25 \text{ }^\circ\text{C}$	5.5
		$T_C = 100 \text{ }^\circ\text{C}$	3.46
Pulsed Drain Current			



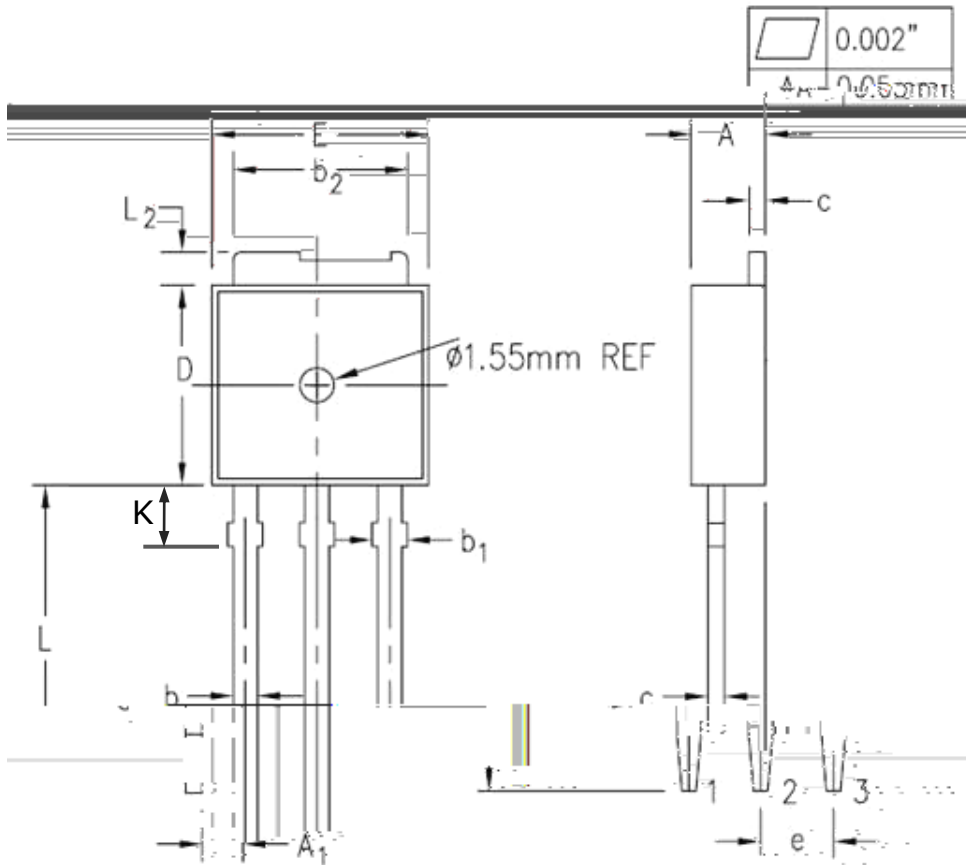


TO-252 (D-PAK) MECHANICAL DATA



SYMBOL	INCHES		MILLIMETERS		NOTES
	MIN.	MAX.	MIN.	MAX.	
A	0.086	0.097	2.19	2.38	
A1		0.005		0.13	
b	0.025	0.035	0.64	0.89	
b ₂	0.033	0.045	0.84	1.14	
b ₃	0.022	0.032	0.56	0.81	
D	0.235	0.245	5.97	6.22	
D ₁	0.205		5.21		2
E	0.250	0.265	6.35	6.73	
E ₁	0.190		4.83		2
e	0.096 BSC		2.29 BSC		
H	0.380	0.410	9.65	10.43	
L ₁	0.055	0.070	1.40	1.78	4
L ₂	0.020 BSC		0.51 BSC		
L ₃	0.035	0.050	0.89	1.27	
L ₄	0.025	0.040	0.64	1.01	6

TO-251 (I-PAK) MECHANICAL DATA



SYMBOL	INCHES		MILIMETERS		NOTES
	MIN.	MAX.	MIN.	MAX.	
A	0.086	0.094	2.19	2.39	
A1	0.040	0.045	1.02	1.14	
b	0.025	0.035	0.64	0.89	
b1	0.037	0.045	0.95	1.14	
b2	0.205	0.215	5.21	5.46	
c	0.018	0.023	0.46	0.58	
D	0.235	0.245	5.97	6.22	
E	0.250	0.265	6.35	6.73	
e	0.090 TYP.		2.28 TYP.		
L	0.350	0.380	8.89	9.65	
L2	0.035	0.050	0.89	1.27	
K	0.079	0.096	2.00	2.44	