

Features

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

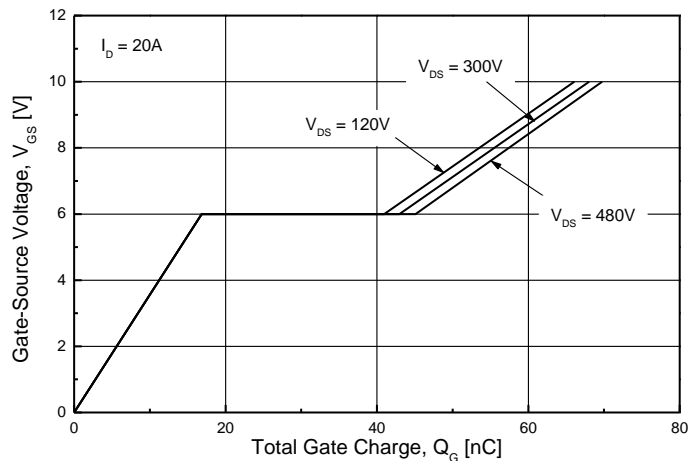
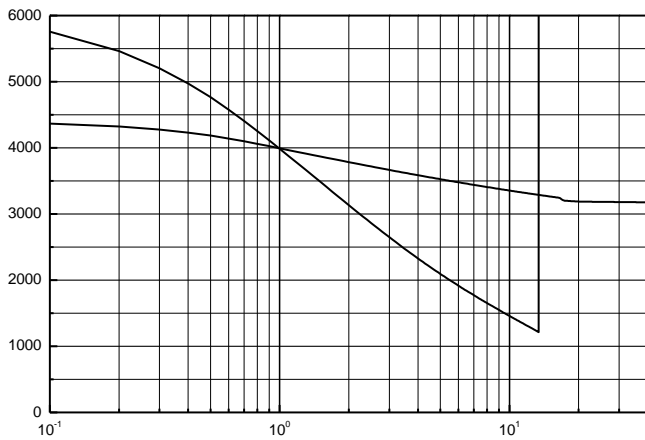
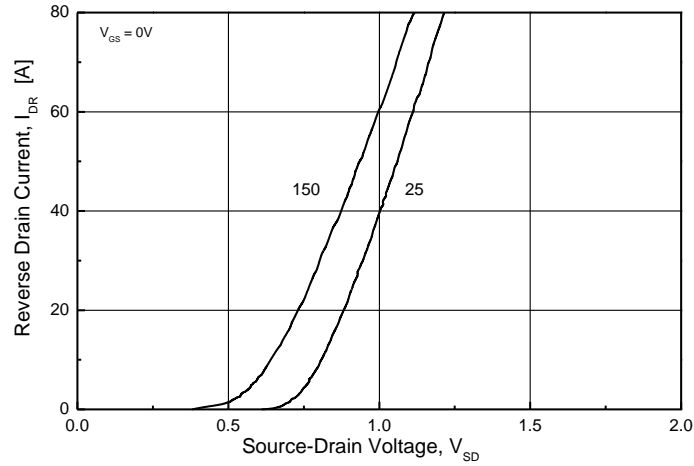
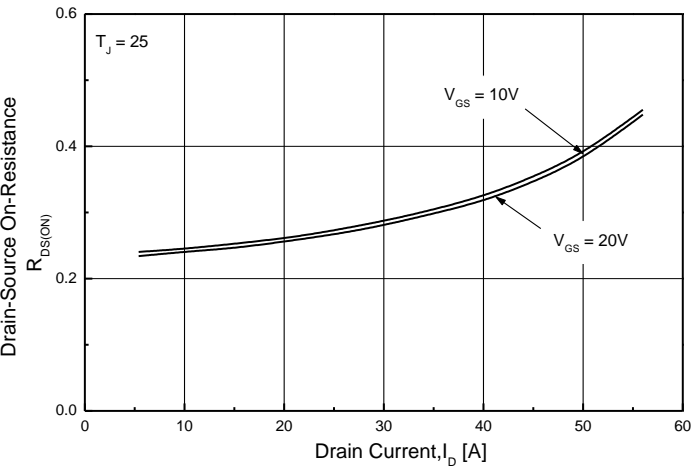
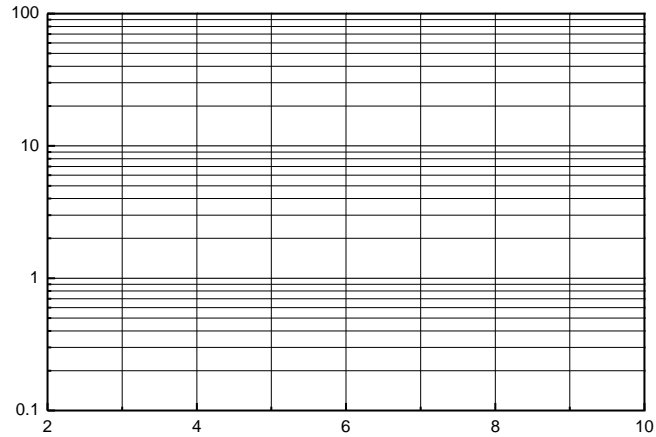
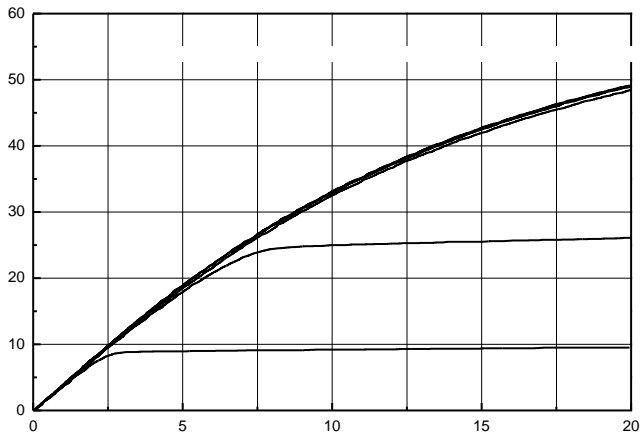
Absolute Maximum Ratings

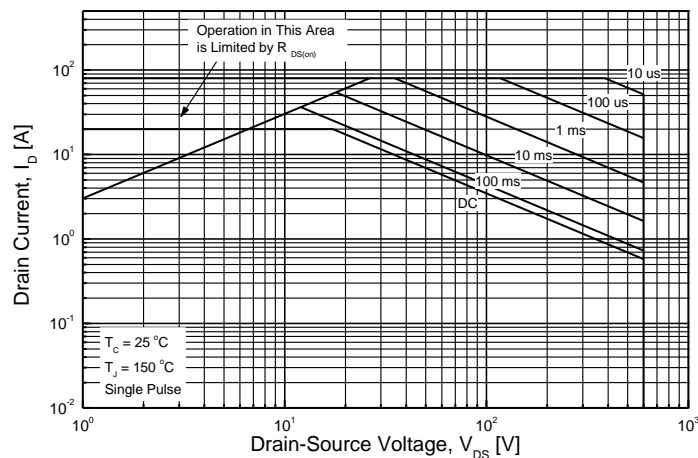
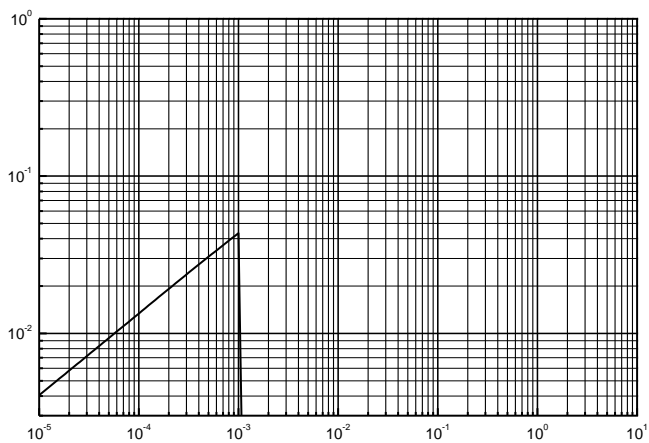
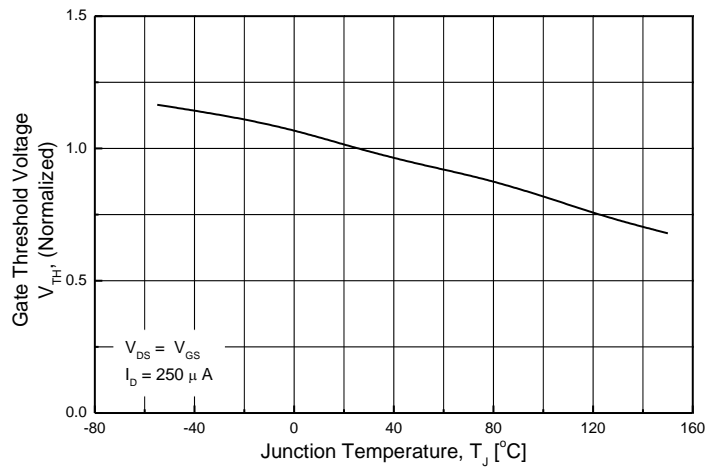
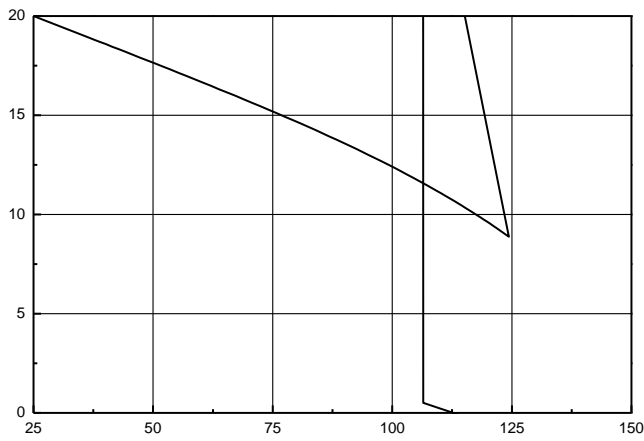
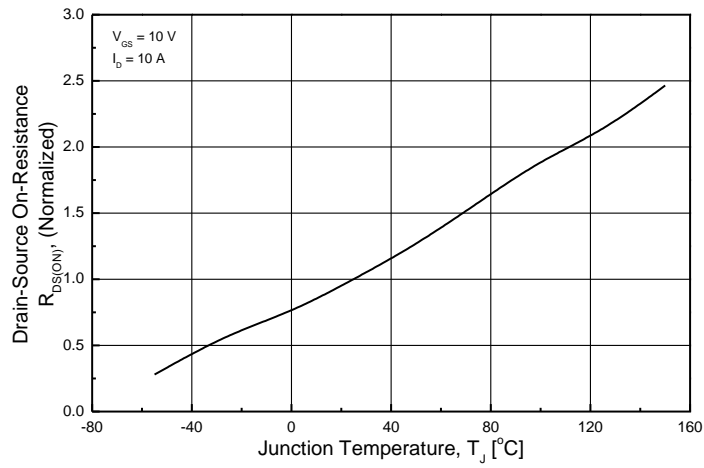
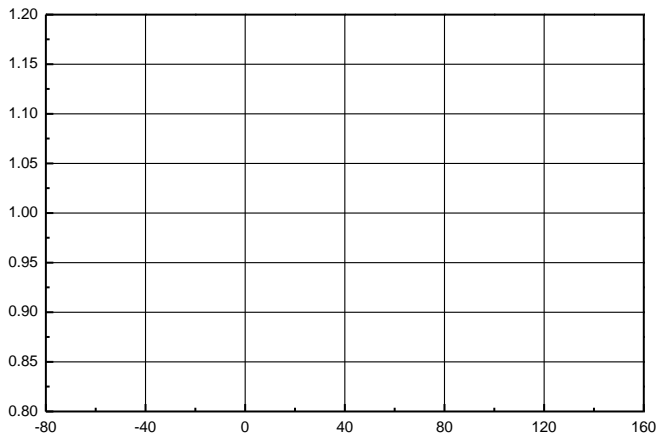
Parameter	Symbol	TMAN20N60A	Unit
Drain-Source Voltage	V_{DS}	600	V
Gate-Source Voltage	V_{GS}	30	V
Continuous Drain Current	I_D	$T_C = 25$	A
		$T_C = 100$	A
Pulsed Drain Current ^(Note 1)	I_{DM}	80	A
Single Pulse Avalanche Energy ^(Note 2)	E_{AS}	826	mJ
Repetitive Avalanche Current ^(Note 1)	I_{AR}	20	A
Repetitive Avalanche Energy ^(Note 1)	E_{AR}	34.7	mJ
Power Dissipation	P_D	$T_C = 25$	W
		Derate above 25	W/
Peak Diode Recovery dv/dt ^(Note 3)	dv/dt	4.5	V/ns
Operating Junction and Storage Temperature Range	T_J, T		

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

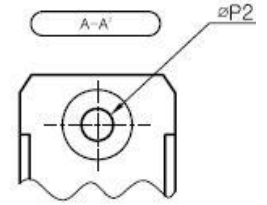
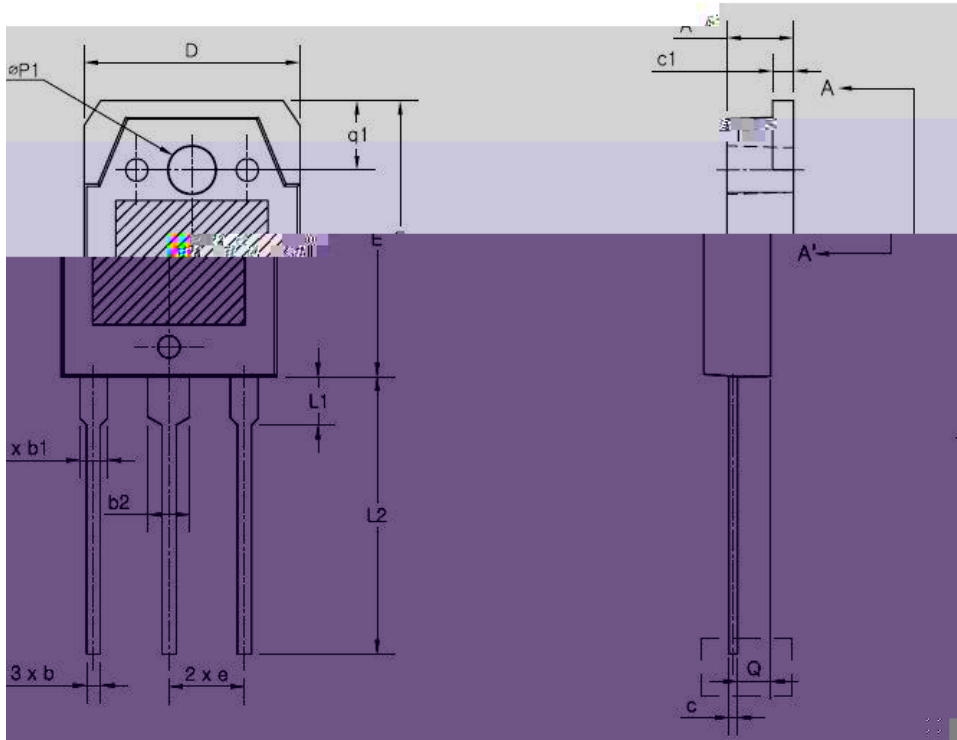
Note :

1. Repeated rating : Pulse width limited by safe operating area
2. $L=3.79\text{mH}$, $I_{AS} = 20\text{A}$, $V_{DD} = 50\text{V}$, $R_G = 25$, Starting $T_J= 25$





TO-3PN MECHANICAL DATA



SYMBOL	MIN	NOM	MAX
A	4.60	4.80	5.00
$\varnothing P1$	3.30	3.40	3.50
$\varnothing P2$	(3.20)		
Q	2.20	2.40	2.60
q1	4.80	5.00	5.20