

V_{DS} 40V
 I_D 164A
 $R_{DS(ON)}$ (at $V_{GS}=10V$) 2.8mohm
 100% EAS Tested
 100% VDS Tested

Excellent package for heat dissipation
 High density cell design for low $R_{DS(ON)}$
 Moisture Sensitivity Level 1
 Epoxy Meets UL 94 V-0 Flammability Rating
 Halogen Free
 Part no. with suffix "Q" means AEC-Q101 qualified

Power switching application
 Uninterruptible power supply
 DC-DC convertor

($T_A=25$ unless otherwise noted)

Drain-source Voltage		V_{DS}	40	V
Gate-source Voltage		V_{GS}	± 20	V
Drain Current	$T_A=25$	I_D	26	A
	$T_A=100$		18	
	$T_C=25$		164	
	$T_C=100$		116	
Pulsed Drain Current ^A		I_{DM}	450	A
Avalanche energy ^B		EAS	484	mJ
Total Power Dissipation ^C	$T_A=25$	P_D	3.5	W
	$T_A=100$		1.7	
	$T_C=25$		136	
	$T_C=100$		68	
Junction and Storage Temperature Range		T_J, T_{STG}	-55 +175	

Thermal Resistance Junction-to-Ambient ^D	Steady-State	R_{JA}	35	42	/W
Thermal Resistance Junction-to-Case	Steady-State	R_{JC}	0.9	1.1	

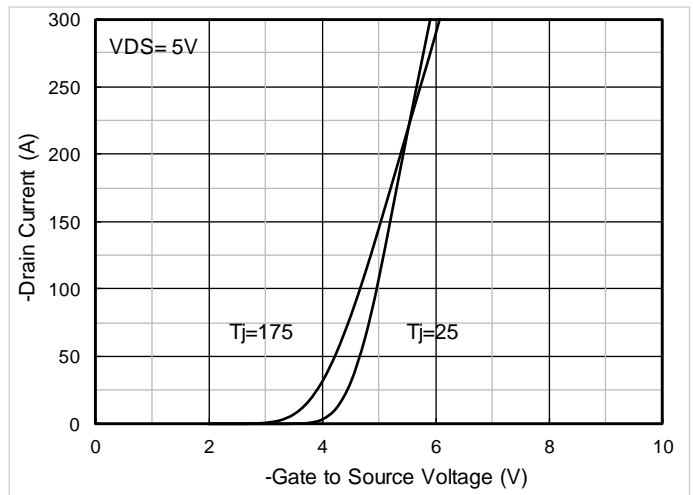
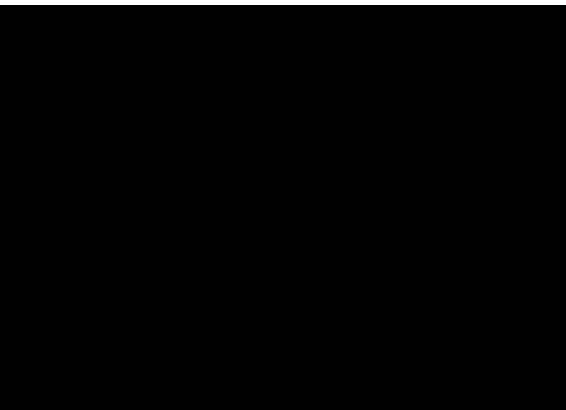


Figure 2. Transfer Characteristics

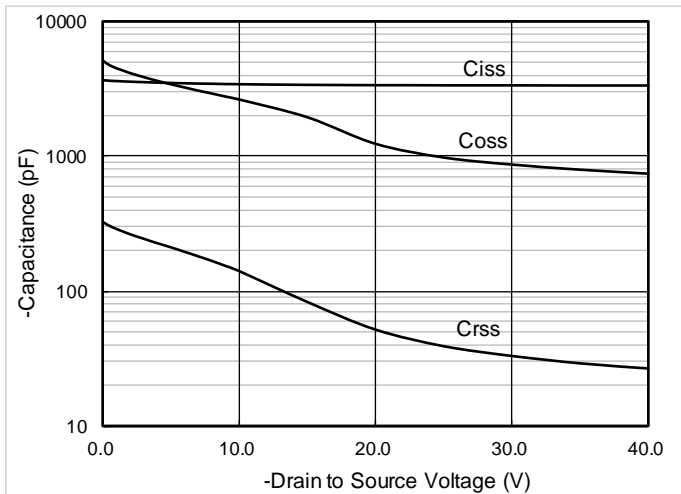


Figure 3. Capacitance Characteristics

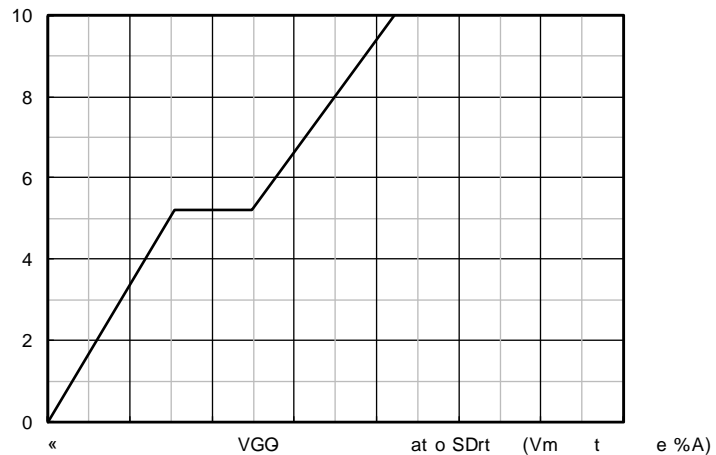


Figure 4. Gate Charge

Figure 5. On-Resistance vs Gate to Source Voltage

Figure 6. Normalized On-Resistance

Figure 7. $R_{DS(on)}$ VS Drain Current

Figure 8. Forward characteristics of reverse diode

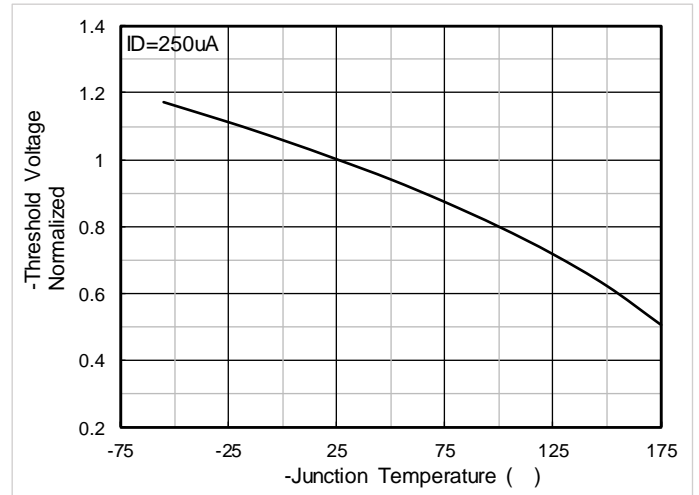
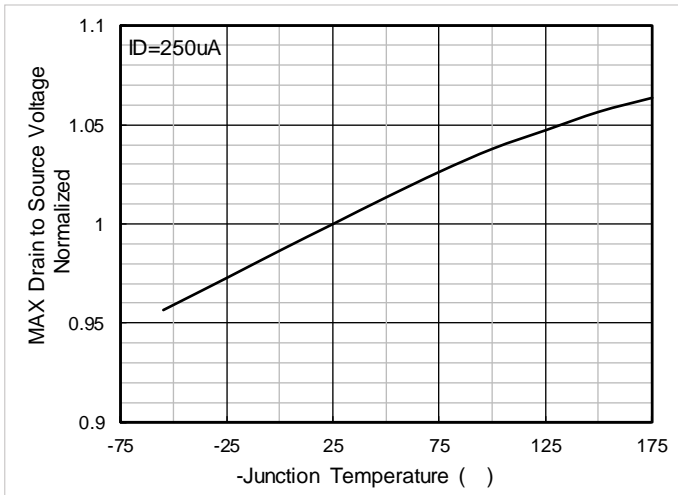
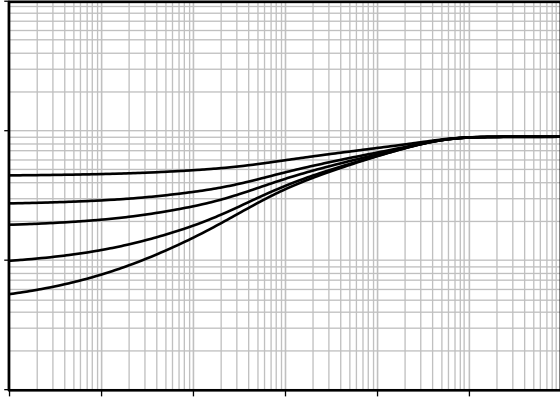


Figure 9. Normalized breakdown voltage

Figure 10. Normalized Threshold voltage





TOP VIEW

SIDE VIEW

BOTTOM VIEW

DIMENSIONS					
SYMBOL	INCHES				
	MIN.	NOM.			
A1	0.000				
A2	0.174	0.180			
b		0.032			
b2		0.050			
c					
c2					
D1					
D2					
E					
E1					



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