

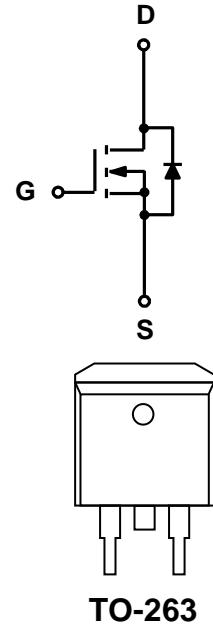
## Features

- 150V,100A  
 $R_{DS(ON)} < 6.0 \text{ m}\Omega @ V_{GS}=10\text{V}$  TYP:5.4 m $\Omega$   
 $R_{DS(ON)} < 7.0 \text{ m}\Omega @ V_{GS}=6\text{V}$  TYP:6.0 m $\Omega$

- Surface-mounted package
- Super Trench
- Advanced trench cell design

## Applications

- LCD TV appliances
- LCDM appliances
- High power inverter system



**TO-263**

## Package Marking and Ordering Information

Device Marking	Device	Device Package	Reel Size	Tape width	Quantity (PCS)
G060N15D	APG060N15D	TO-263	-	-	800

## ABSOLUTE MAXIMUM RATINGS ( $T_a=25^\circ\text{C}$ unless otherwise noted)

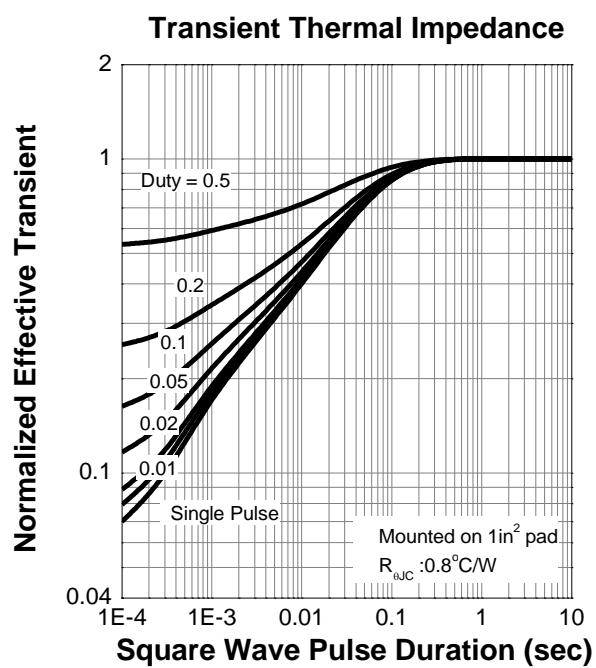
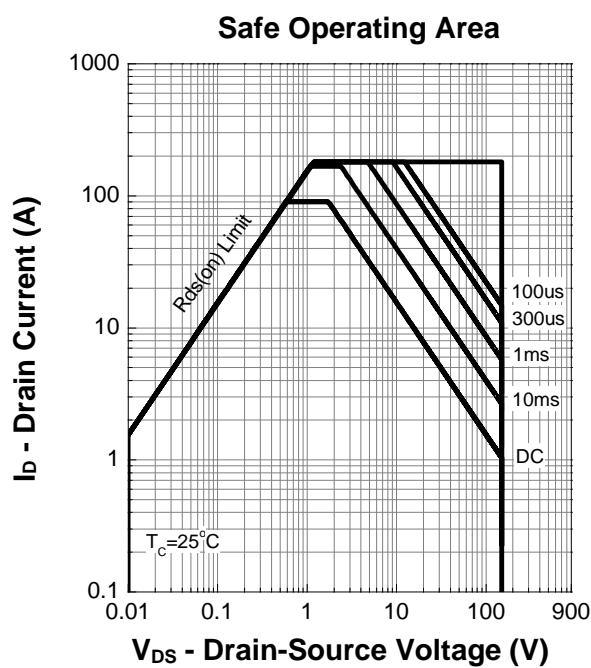
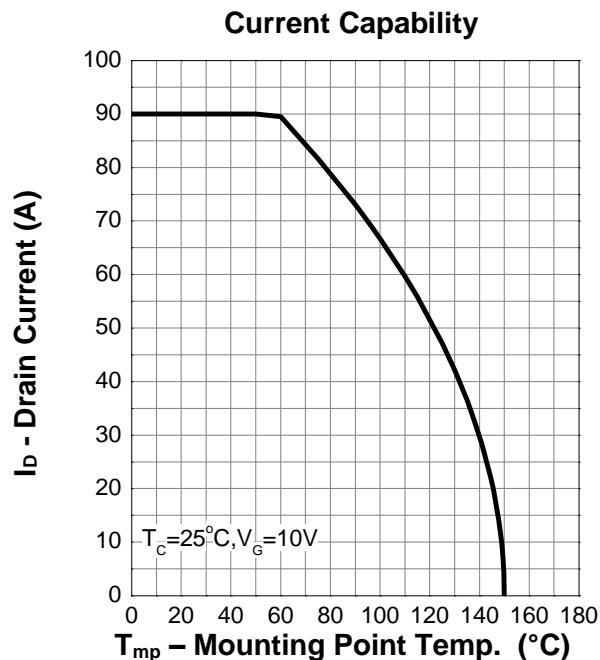
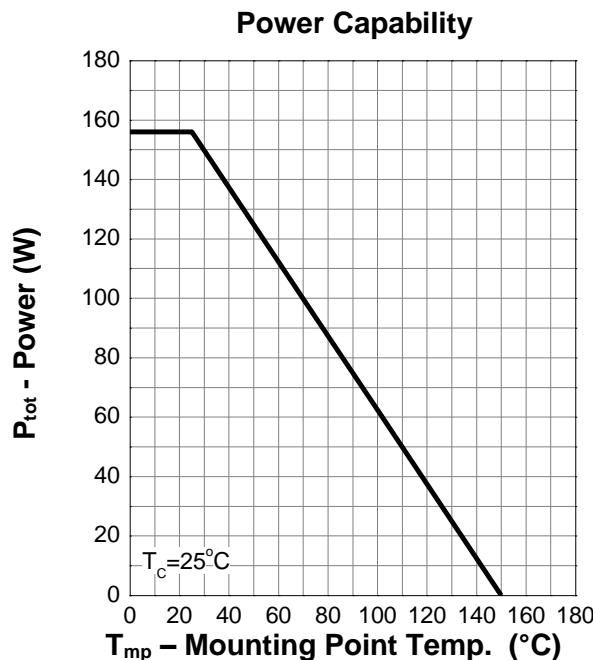
Parameter	Symbol	Value	Unit
Drain-Source Voltage	$V_{DS}$	150	V
Gate-Source Voltage	$V_{GS}$	$\pm 25$	V
Continuous Drain Current ( $T_C = 25^\circ\text{C}$ ) <sup>(1,3)</sup>	$I_D$	100	A
Continuous Drain Current ( $T_C = 100^\circ\text{C}$ ) <sup>(1,3)</sup>	$I_D$	66	A
Pulsed Drain Current <sup>(1,2,3)</sup>	$I_{DM}$	180	A
Single Pulsed Avalanche Energy ( $V_{DD}=50\text{V}$ , $L=1.0\text{mH}$ )	$E_{AS}$	1250	mJ
Drain Power Dissipation	$P_D$	156	W
Thermal Resistance from Junction to Case <sup>(2)</sup>	$R_{\theta JC}$	0.8	$^\circ\text{C}/\text{W}$
Thermal Resistance- Junction to Ambient <sup>(2)</sup>	$R_{\theta JA}$	40	$^\circ\text{C}/\text{W}$
Junction Temperature	$T_J$	150	$^\circ\text{C}$
Storage Temperature	$T_{STG}$	-55~+150	$^\circ\text{C}$

Notes:

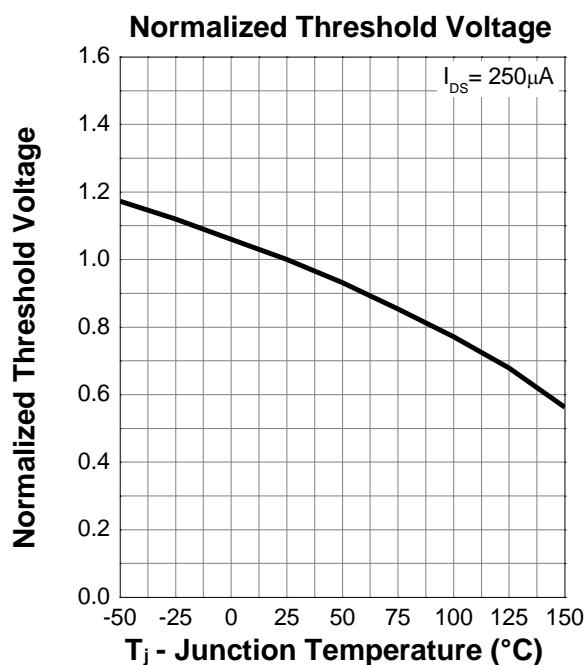
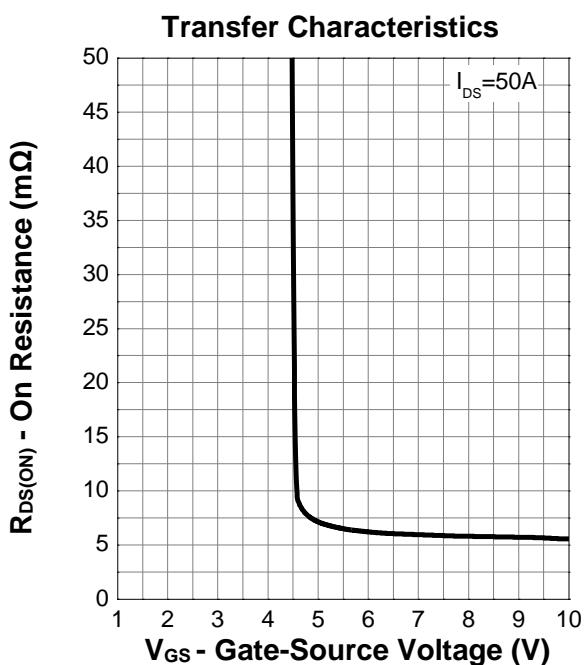
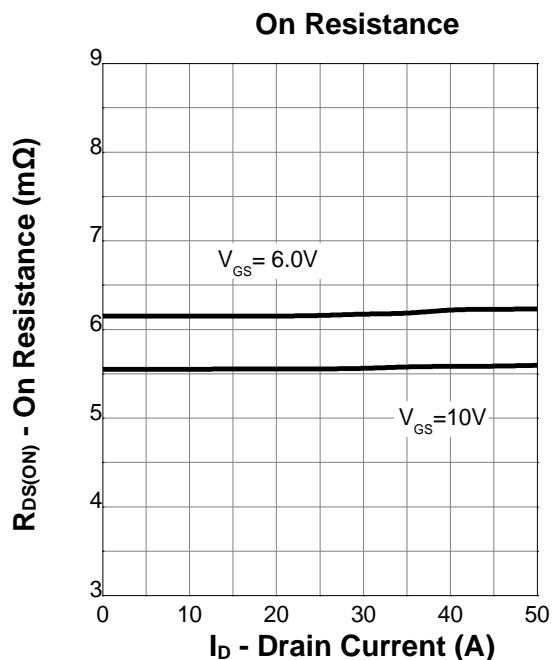
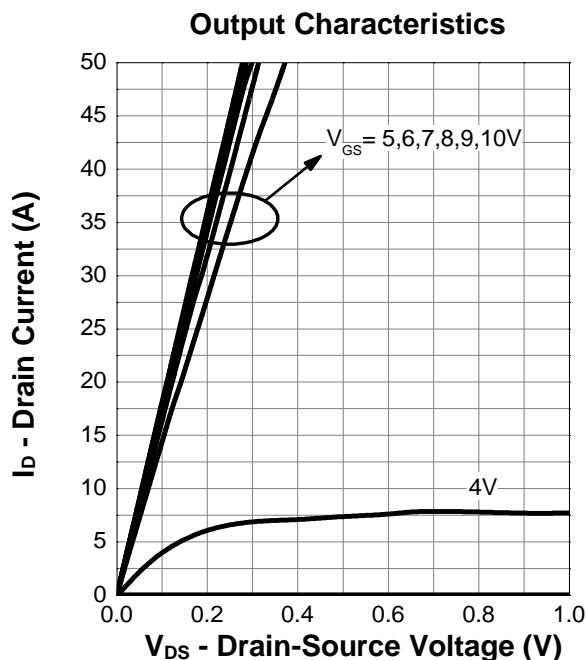
1. Pulse width  $\leq 300 \mu\text{s}$ , duty cycle  $\leq 2 \%$
2. Surface Mounted on minimum footprint pad area.
3. Limited by bonding wire



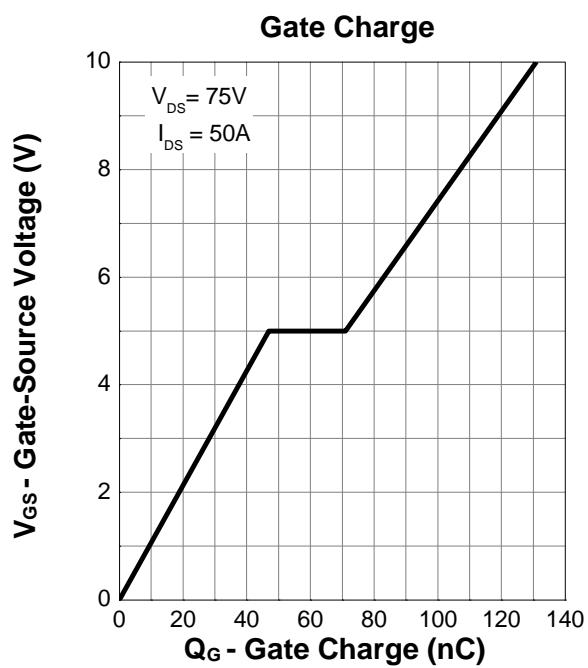
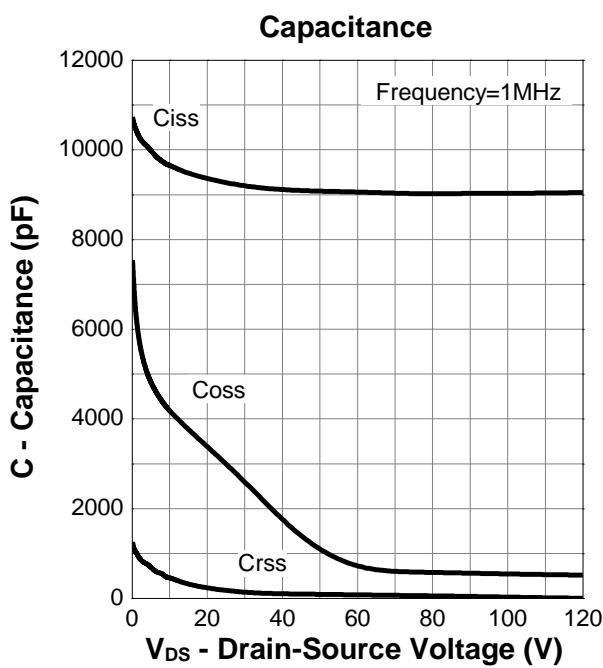
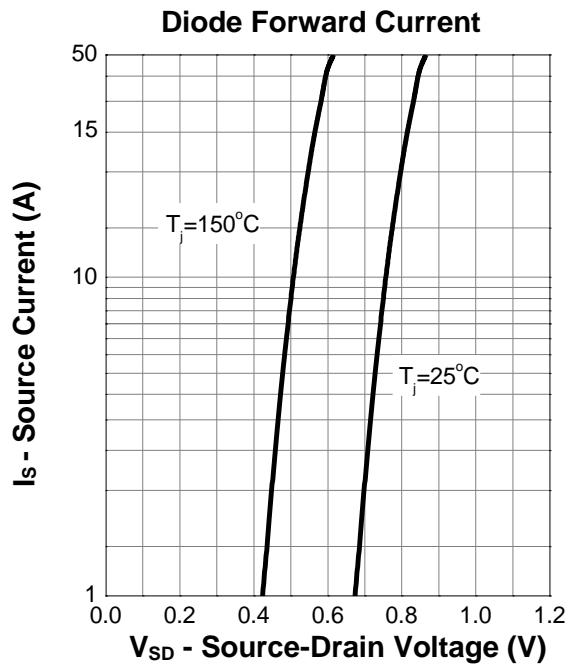
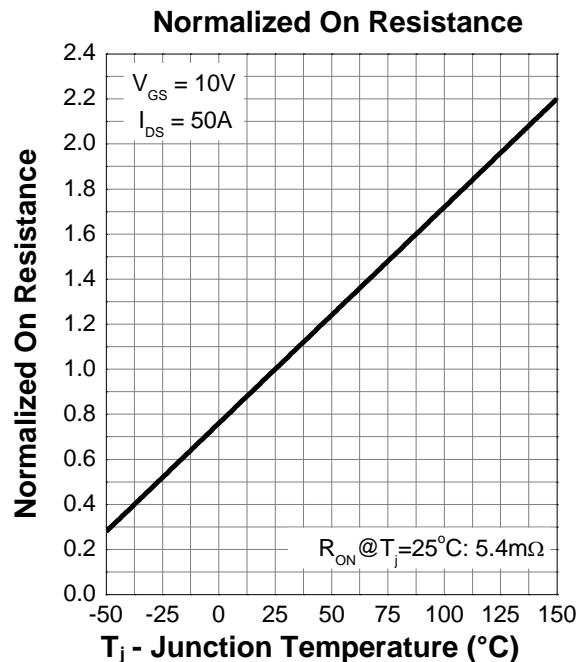
## Typical Characteristics



## Typical Characteristics (cont.)

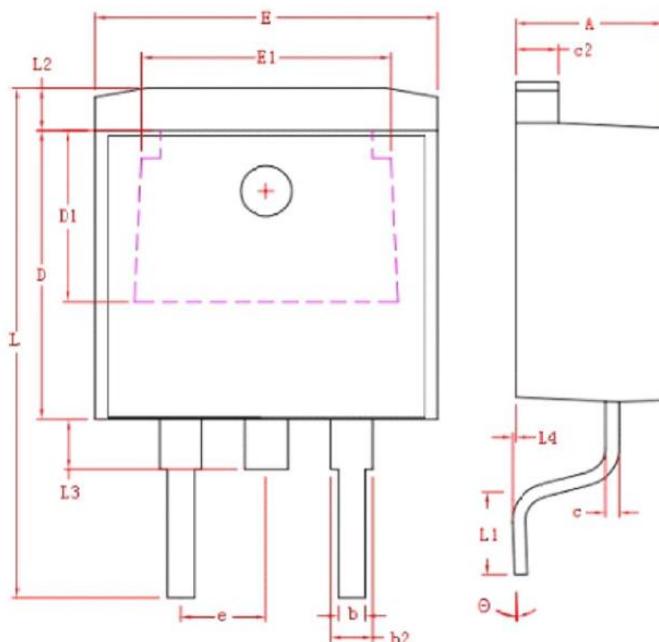


## Typical Characteristics (cont.)



## Package Dimensions

TO-263



Symbol	Dimensions In Millimeters	
	MIN.	MAX.
A	4.40	4.80
b	0.76	1.00
L4	0.00	0.25
C	0.36	0.50
L3	1.50 REF	
L1	2.29	2.79
E	9.80	10.40
E1	7.40 REF	
c2	1.25	1.45
b2	1.17	1.47
D	8.60	9.00
D1	5.10 REF	
e	2.54 REF	
L	14.6	15.8
θ	$0^\circ \pm 3^\circ$	
L2	1.27 REF	