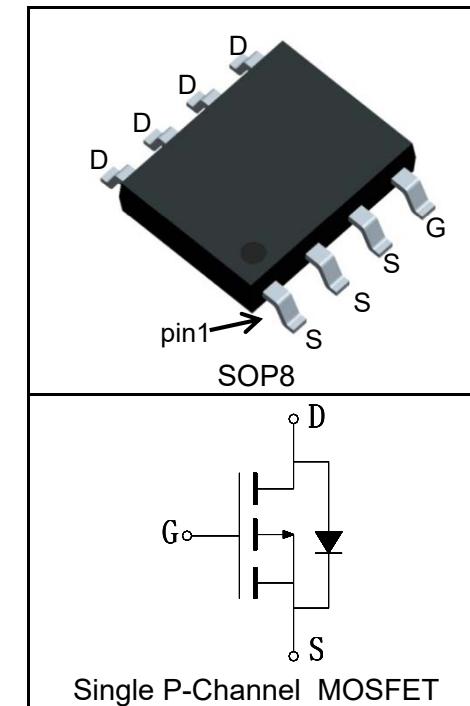


Features

- -30V/-15A,
 $R_{DS\ (ON)} = 15m\Omega$ (Typ.)@ $V_{GS}=-10V$
- $R_{DS\ (ON)} = 21m\Omega$ (Typ.)@ $V_{GS}=-4.5V$
- Low $R_{DS\ (ON)}$
- Super High Dense Cell Design
- Reliable and Rugged

Pin Description



Applications

- Load Switch
- PWM Applications
- Power Management



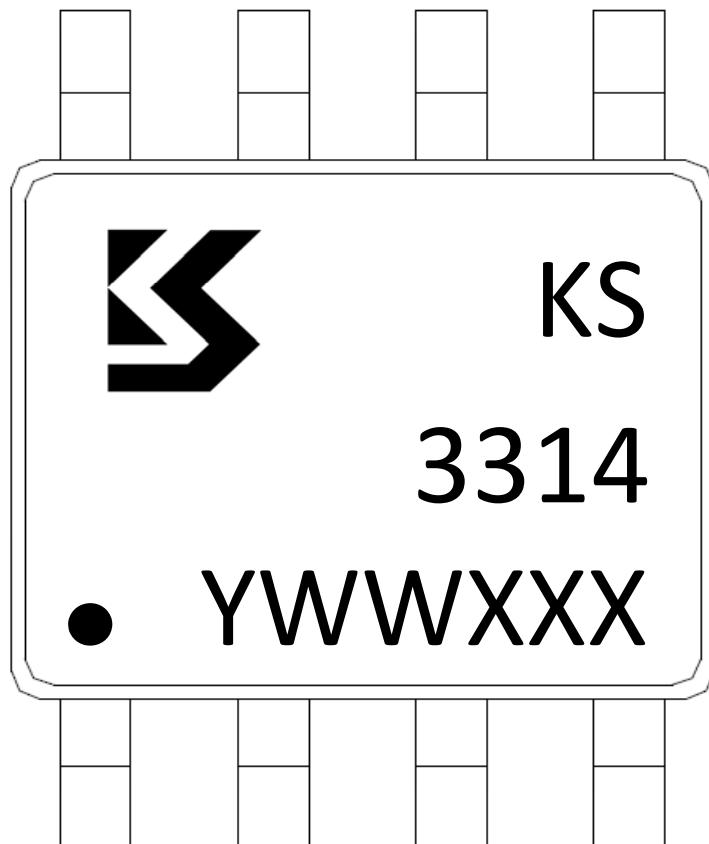
Halogen-Free

Absolute Maximum Ratings

Symbol	Parameter	Rating	Unit
Common Ratings ($T_A=25^\circ C$ Unless Otherwise Noted)			
V_{DSS}	Drain-Source Voltage	-30	V
V_{GSS}	Gate-Source Voltage	± 20	
T_J	Maximum Junction Temperature	150	$^\circ C$
T_{STG}	Storage Temperature Range	-55 to 150	$^\circ C$
I_S	Diode Continuous Forward Current	$T_A=25^\circ C$	-2.6
Mounted on Large Heat Sink			
$I_{DP}^{(1)}$	300 μs Pulse Drain Current Tested	$T_A=25^\circ C$	-60
$I_D^{(2)}$	Continuous Drain Current($V_{GS}=-10V$)	$T_A=25^\circ C$	-15
		$T_A=70^\circ C$	-12
P_D	Maximum Power Dissipation	$T_A=25^\circ C$	2.5
		$T_A=70^\circ C$	1.6
$R_{\theta JC}$	Thermal Resistance-Junction to Case	25	$^\circ C/W$
$R_{\theta JA}^{(3)}$	Thermal Resistance-Junction to Ambient	50	$^\circ C/W$
Drain-Source Avalanche Ratings			
$E_{AS}^{(4)}$	Avalanche Energy, Single Pulsed	TBD	mJ

Ordering and Marking Information

Device	Package	Packaging	Quantity	Reel Size	Tape width
KS3314HA	SOP8	Tape&Reel	3000	13"	12mm

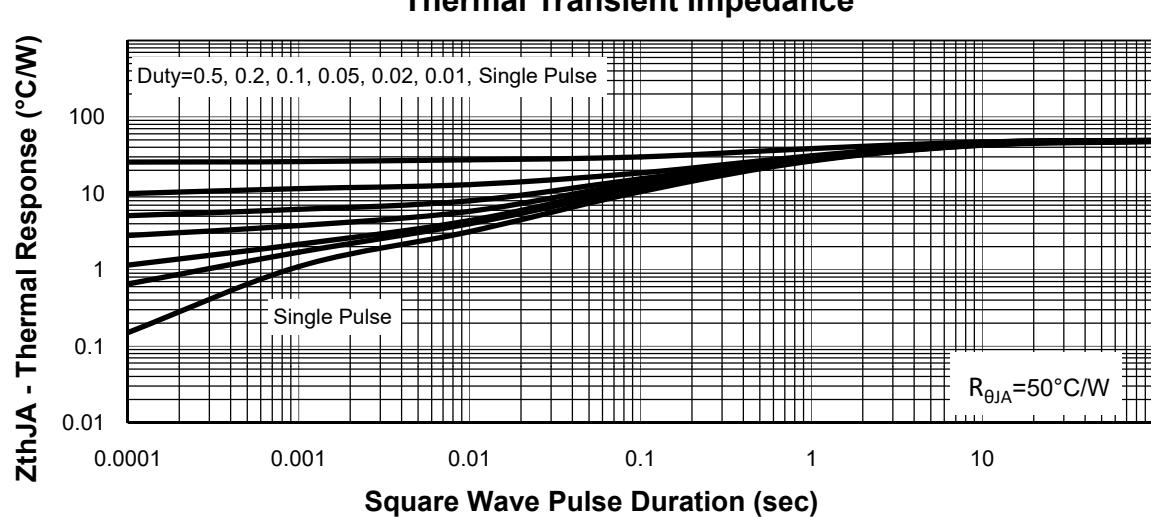
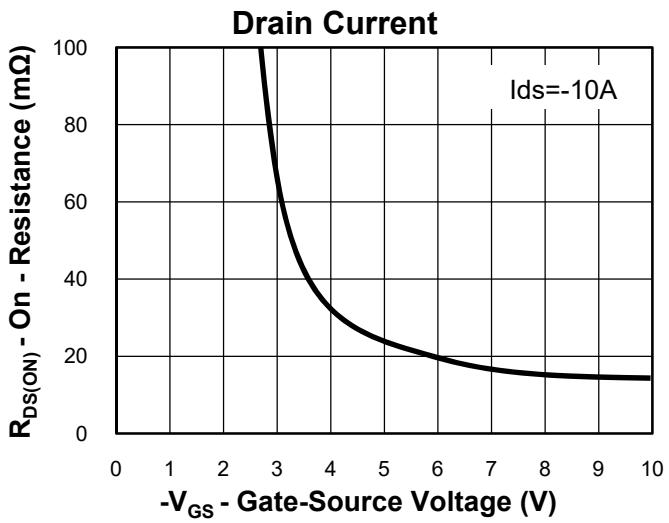
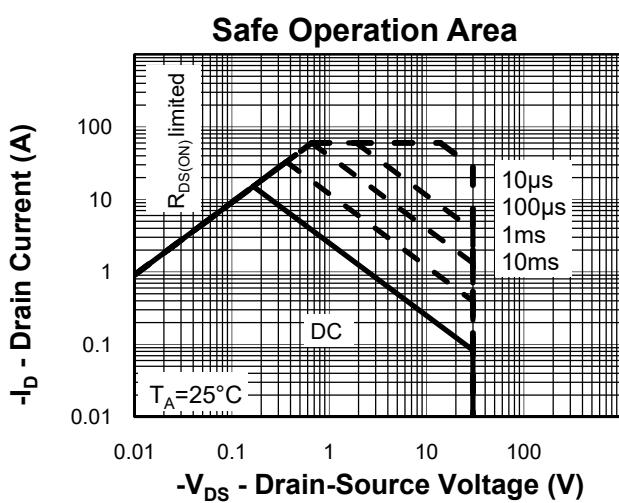
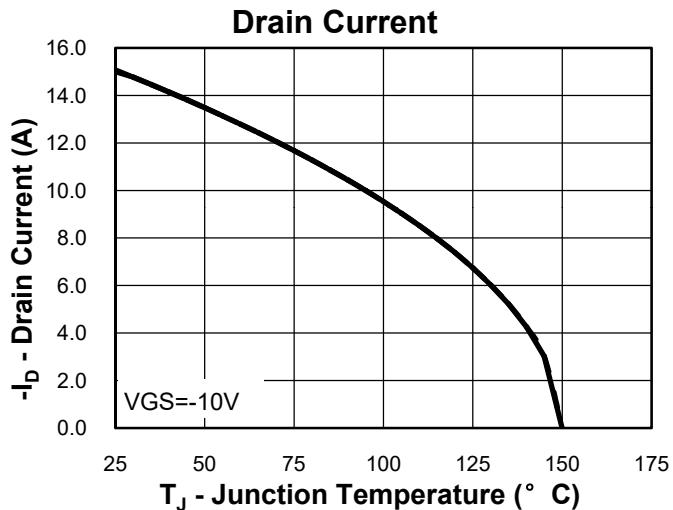
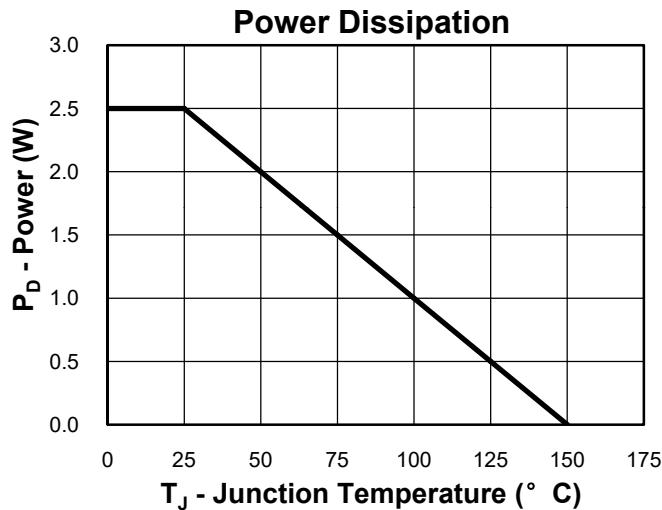


Y =Year,2017-A,2018-B,etc.

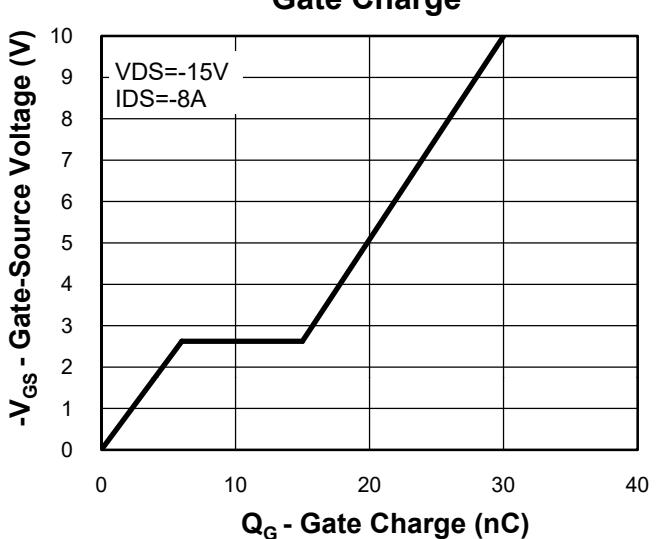
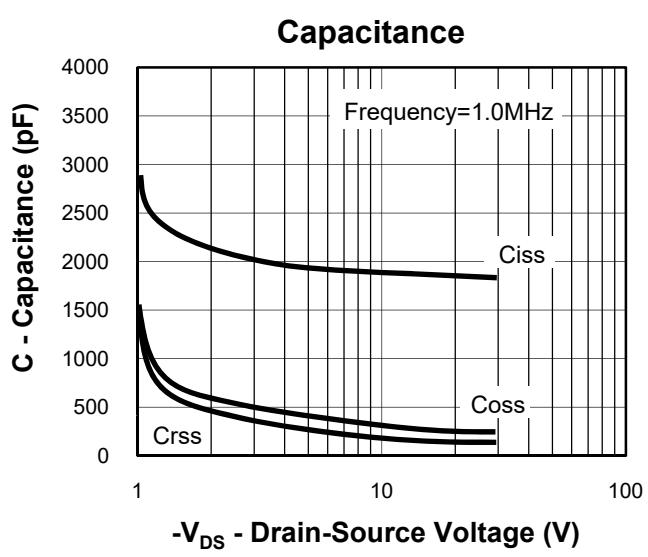
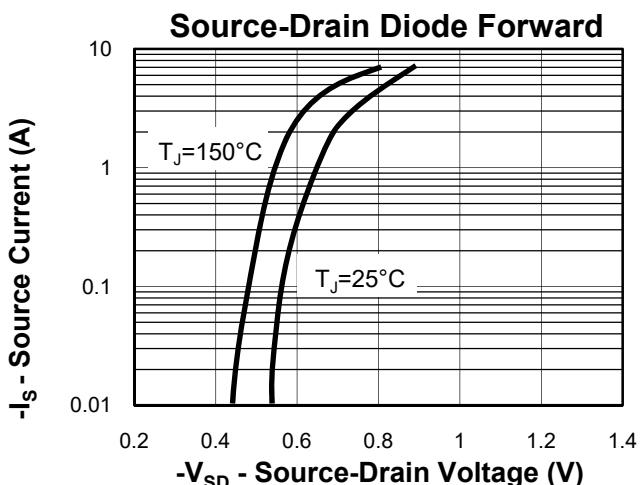
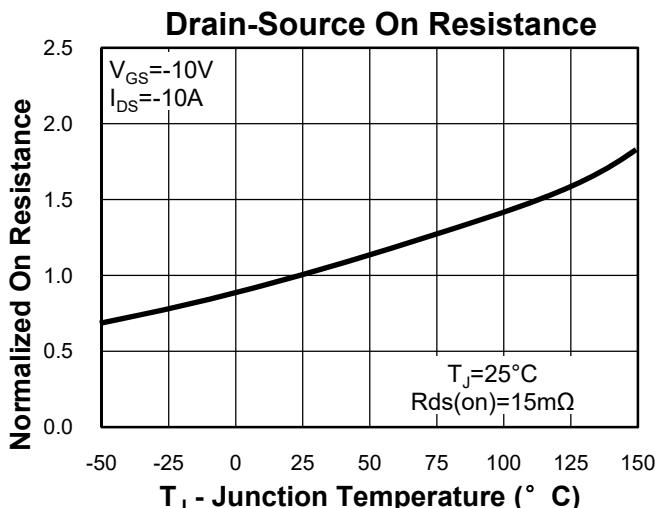
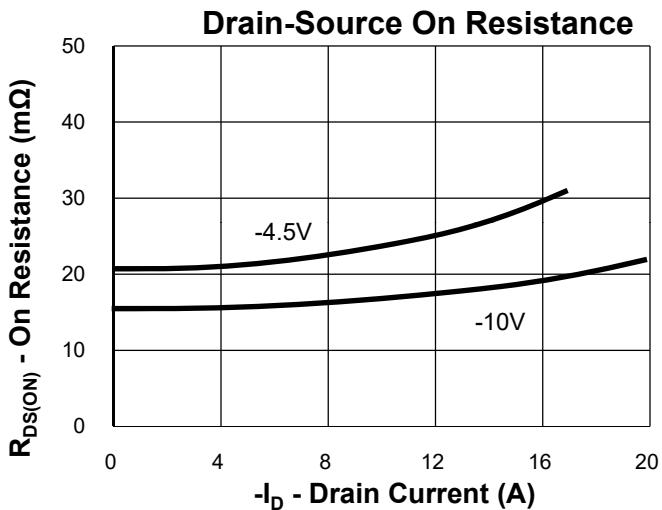
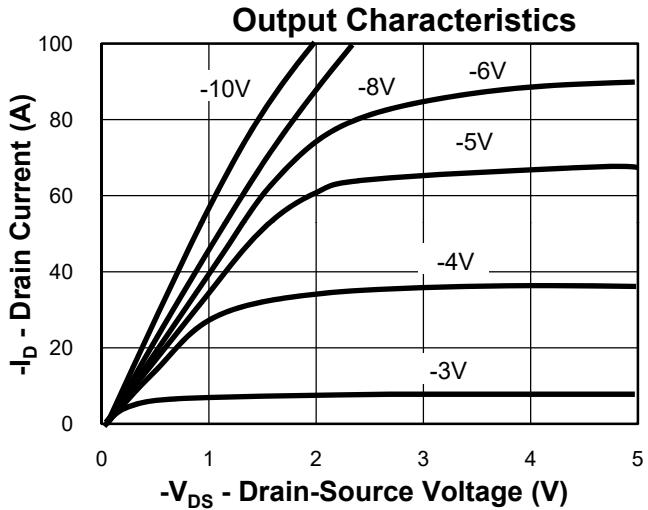
WW =Week.

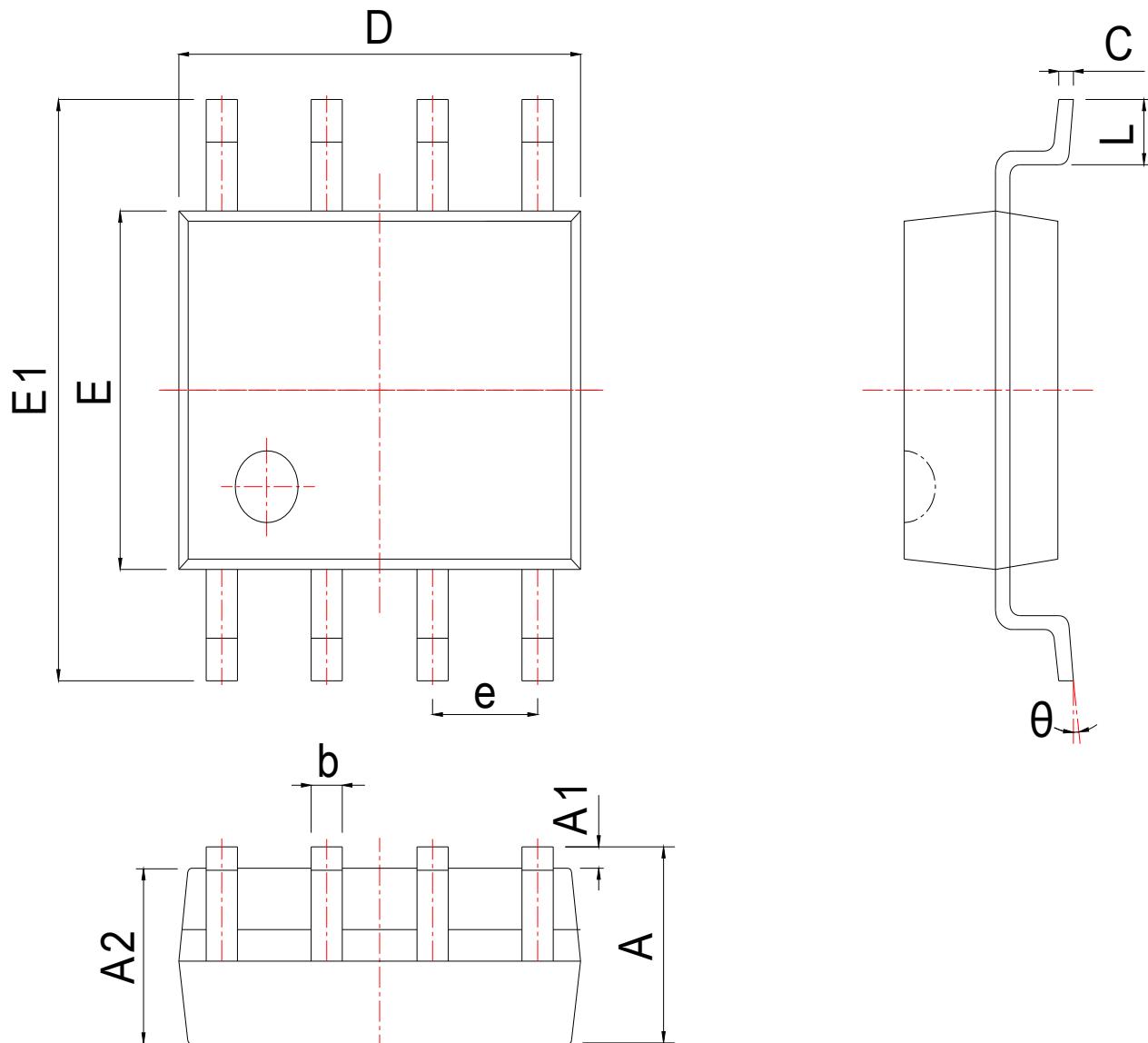
XXX =Lot number.

Typical Characteristics



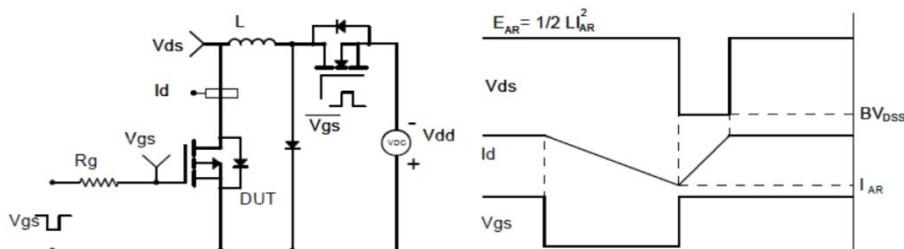
Typical Characteristics



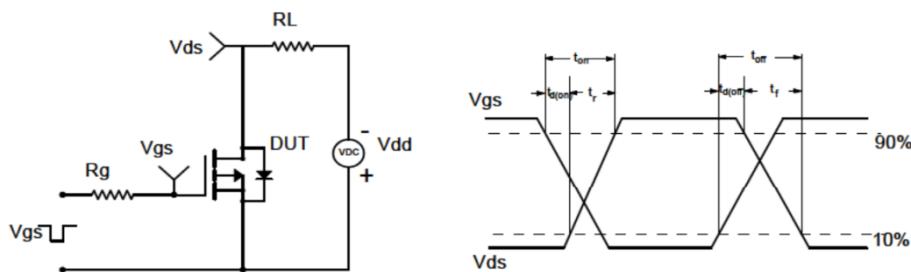
Package Information
SOP8


SYMBOL	MM			INCH		
	MIN	NOM	MAX	MIN	NOM	MAX
A	1.300	1.525	1.750	0.051	0.060	0.069
A1	0.050	0.150	0.250	0.002	0.006	0.010
A2	1.350	1.450	1.550	0.053	0.057	0.061
b	0.330	0.420	0.510	0.013	0.017	0.020
c	0.170	0.210	0.250	0.007	0.008	0.010
D	4.700	4.900	5.100	0.185	0.193	0.201
E	3.800	3.900	4.000	0.150	0.154	0.157
E1	5.800	6.000	6.200	0.228	0.236	0.244
e	1.270 BSC			0.050 BSC		
L	0.400	0.835	1.270	0.016	0.033	0.050
θ	0°		8°	0°		8°

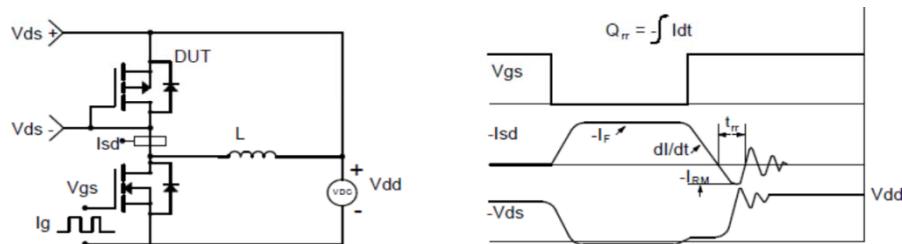
Avalanche Test Circuit and Waveforms



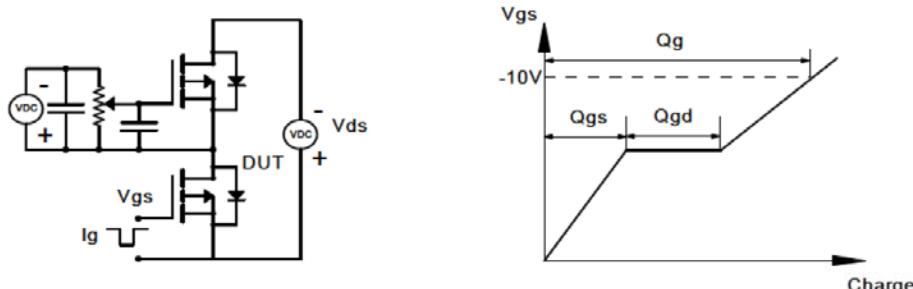
Switching Time Test Circuit and Waveforms



Diode Recovery Test Circuit and Waveforms



Gate Charge Test Circuit and Waveform



Customer Service

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