

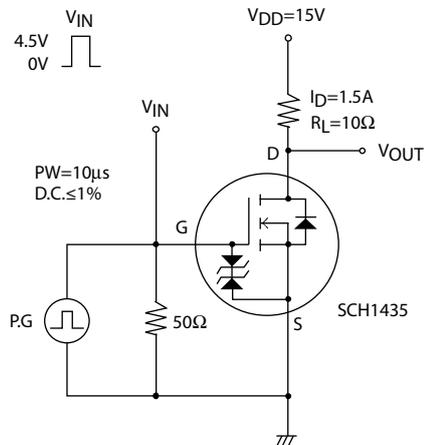
# SCH1435

## ELECTRICAL CHARACTERISTICS at Ta = 25°C (Note 2)

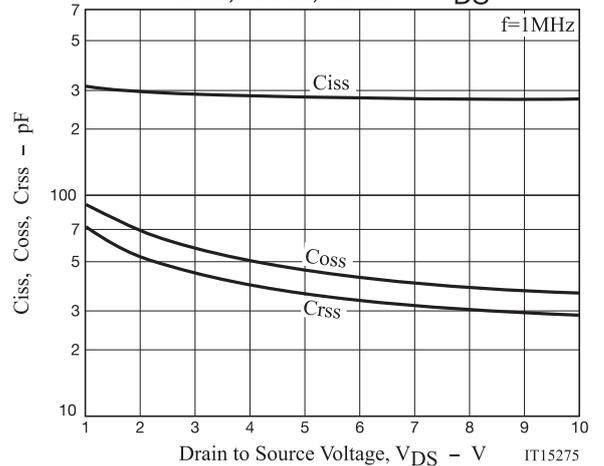
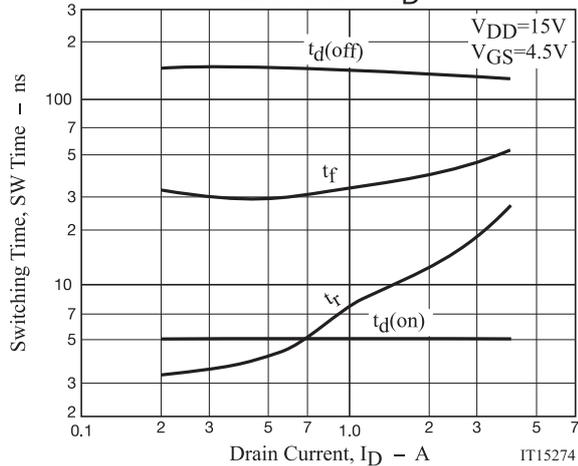
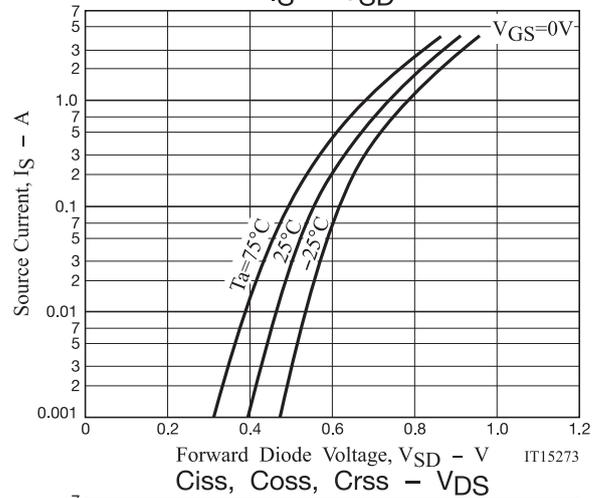
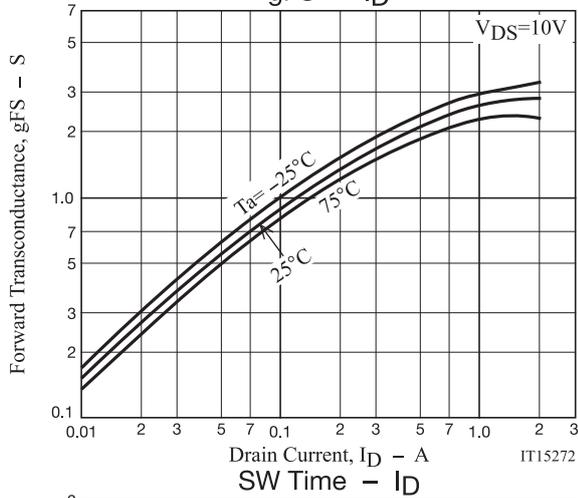
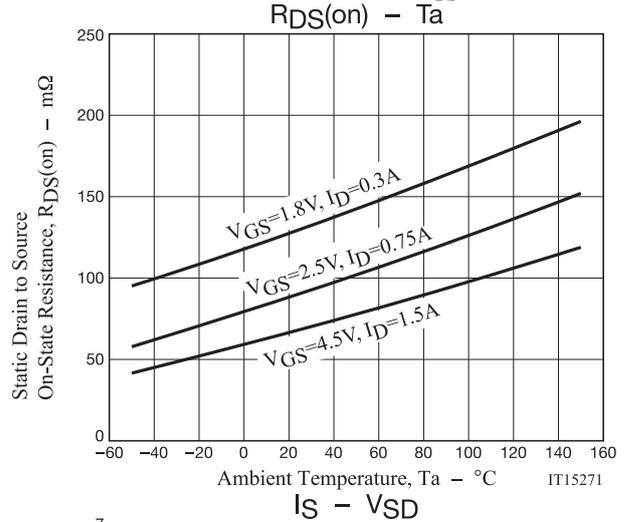
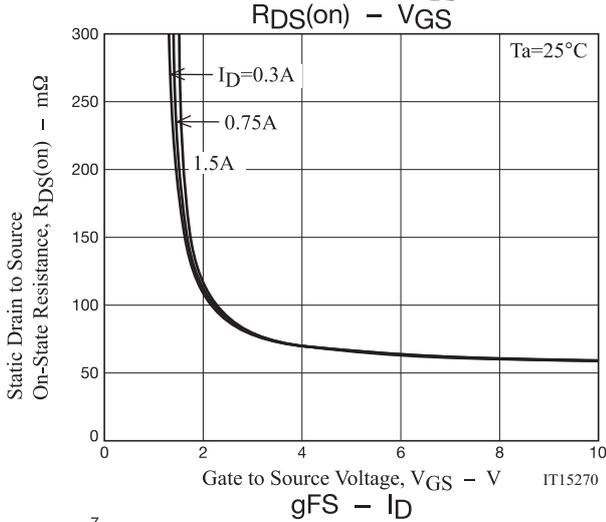
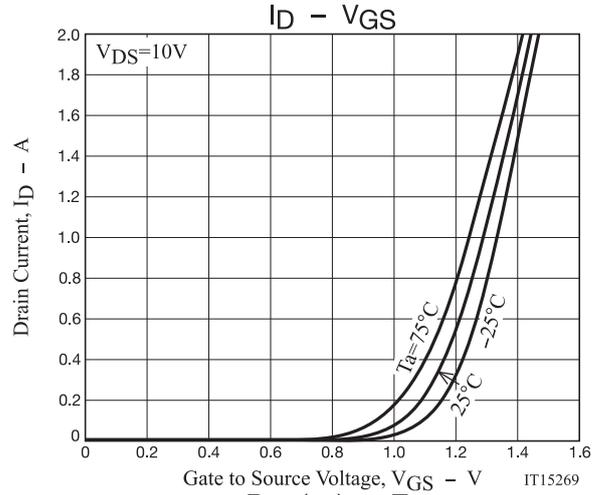
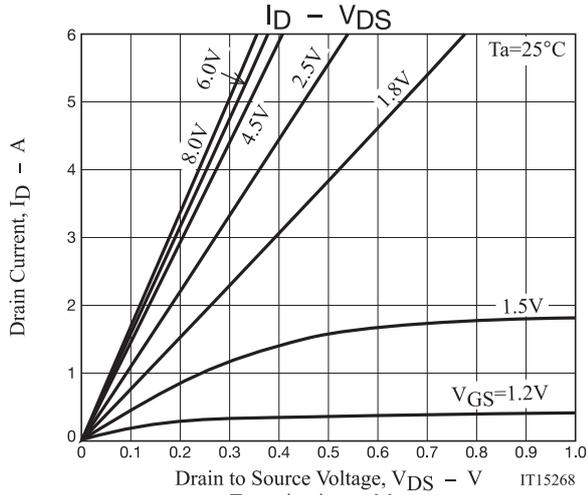
Parameter	Symbol	Conditions	Value			Unit
			min	typ	max	
Drain to Source Breakdown Voltage	V(BR)DSS	I <sub>D</sub> =1mA, V <sub>GS</sub> =0V	30			V
Zero-Gate Voltage Drain Current	I <sub>DSS</sub>	V <sub>DS</sub> =30V, V <sub>GS</sub> =0V			1	μA
Gate to Source Leakage Current	I <sub>GSS</sub>	V <sub>GS</sub> =±8V, V <sub>DS</sub> =0V			±10	μA
Gate Threshold Voltage	V <sub>GS(th)</sub>	V <sub>DS</sub> =10V, I <sub>D</sub> =1mA	0.4		1.3	V
Forward Transconductance	g <sub>FS</sub>	V <sub>DS</sub> =10V, I <sub>D</sub> =1.5A		2.7		S
Static Drain to Source On-State Resistance	R <sub>DS(on)1</sub>	I <sub>D</sub> =1.5A, V <sub>GS</sub> =4.5V		68	89	mΩ
	R <sub>DS(on)2</sub>	I <sub>D</sub> =0.75A, V <sub>GS</sub> =2.5V		90	126	mΩ
	R <sub>DS(on)3</sub>	I <sub>D</sub> =0.3A, V <sub>GS</sub> =1.8V		130	195	mΩ
Input Capacitance	C <sub>iss</sub>	V <sub>DS</sub> =10V, f=1MHz		265		pF
Output Capacitance	C <sub>oss</sub>			35		pF
Reverse Transfer Capacitance	C <sub>rss</sub>			28		pF
Turn-ON Delay Time	t <sub>d(on)</sub>		See specified Test Circuit		5.1	
Rise Time	t <sub>r</sub>			10		ns
Turn-OFF Delay Time	t <sub>d(off)</sub>			137		ns
Fall Time	t <sub>f</sub>			36		ns
Total Gate Charge	Q <sub>g</sub>	V <sub>DS</sub> =15V, V <sub>GS</sub> =4.5V, I <sub>D</sub> =3A			3.5	
Gate to Source Charge	Q <sub>gs</sub>			0.57		nC
Gate to Drain "Miller" Charge	Q <sub>gd</sub>			0.93		nC
Forward Diode Voltage	V <sub>SD</sub>	I <sub>S</sub> =3A, V <sub>GS</sub> =0V		0.87	1.2	V

Note 2 : Product parametric performance is indicated in the Electrical Characteristics for the listed test conditions, unless otherwise noted. Product performance may not be indicated by the Electrical Characteristics if operated under different conditions.

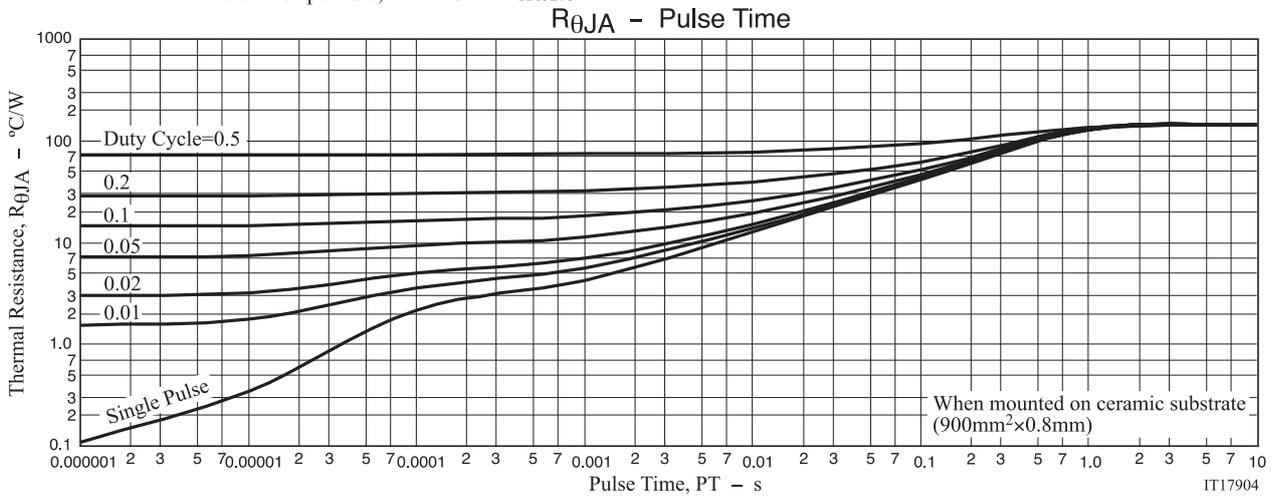
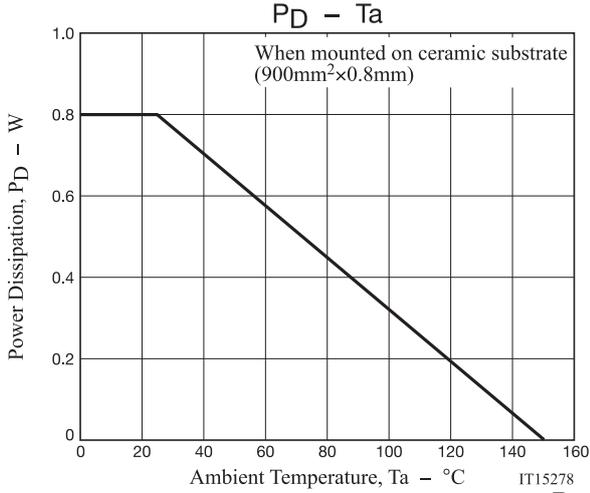
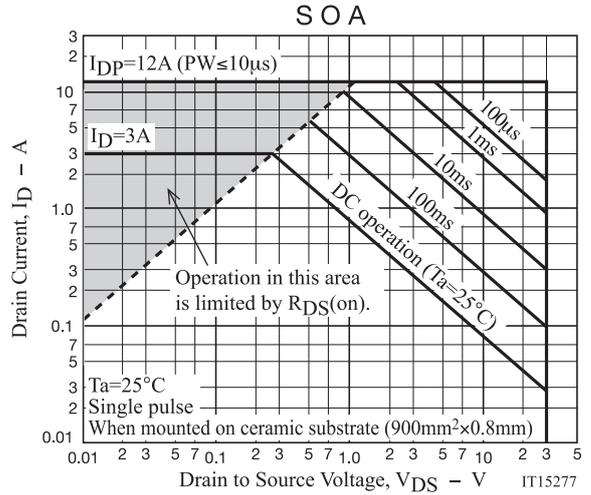
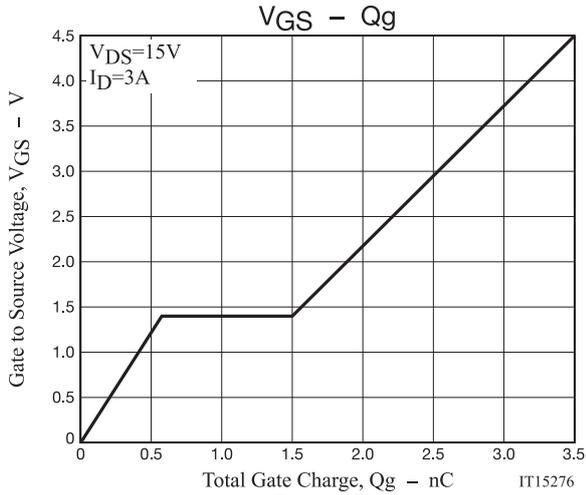
### Switching Time Test Circuit



# SCH1435



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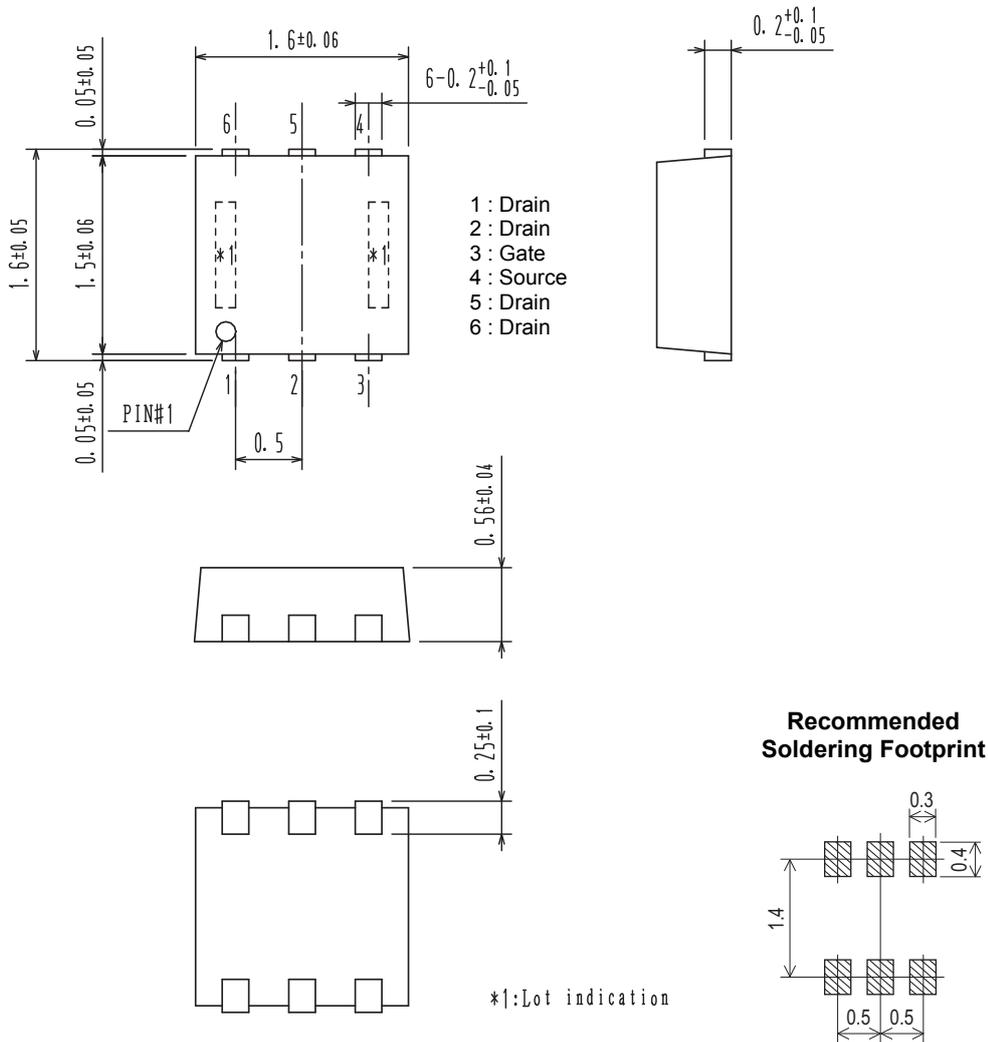


# SCH1435

## PACKAGE DIMENSIONS

unit : mm

SOT-563 / SCH6  
CASE 463AB  
ISSUE O



## ORDERING INFORMATION

Device	Marking	Package	Shipping (Qty / Packing)
SCH1435-TL-H	ZL	SOT-563 / SCH6 (Pb-Free / Halogen Free)	5,000 / Tape & Reel
SCH1435-TL-W			

† For information on tape and reel specifications, including part orientation and tape sizes, please refer to our Tape and Reel Packaging Specifications Brochure, BRD8011/D. [http://www.onsemi.com/pub\\_link/Collateral/BRD8011-D.PDF](http://www.onsemi.com/pub_link/Collateral/BRD8011-D.PDF)

Note on usage : Since the SCH1435 is a MOSFET product, please avoid using this device in the vicinity of highly charged objects.

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