

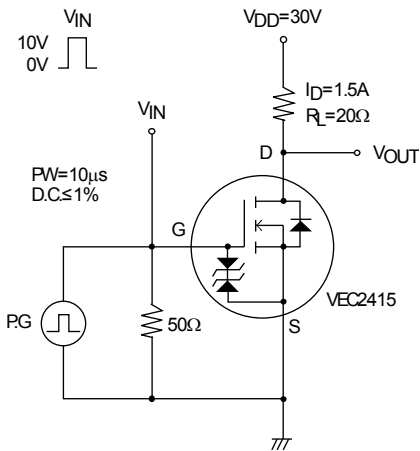
VEC2415

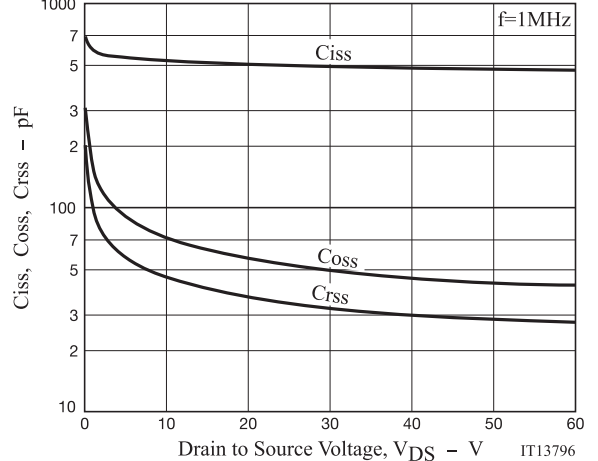
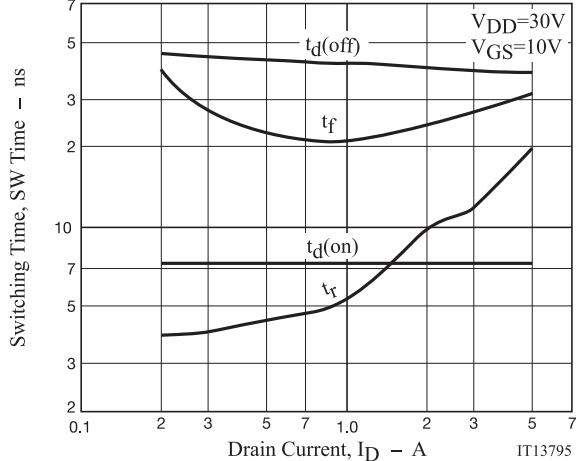
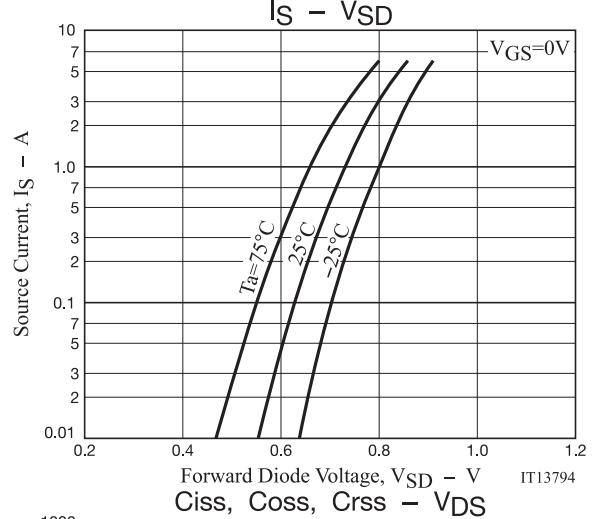
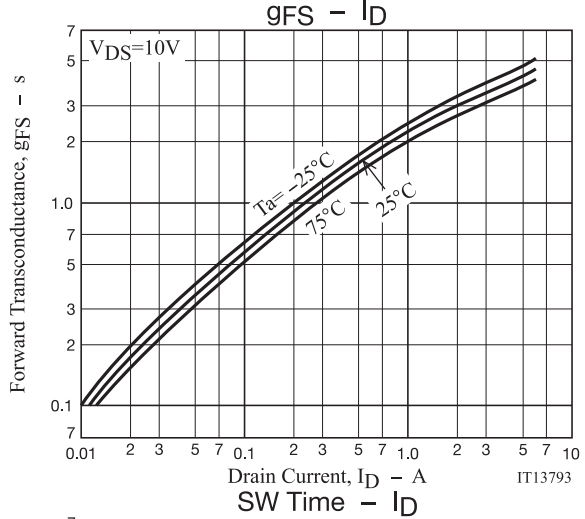
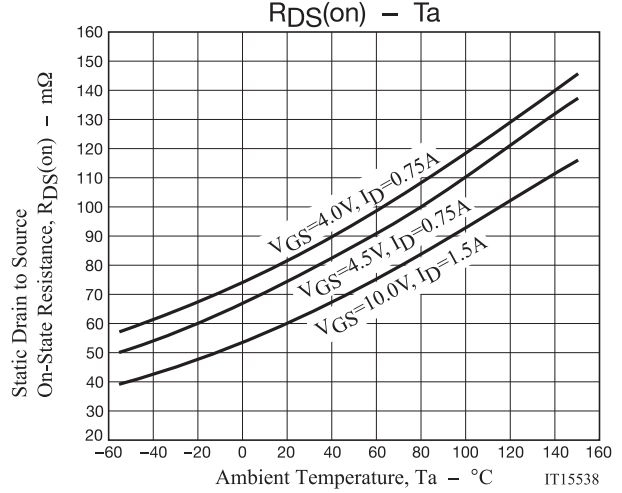
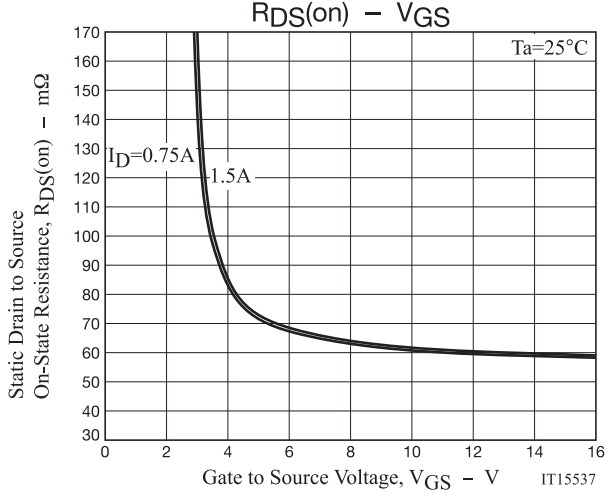
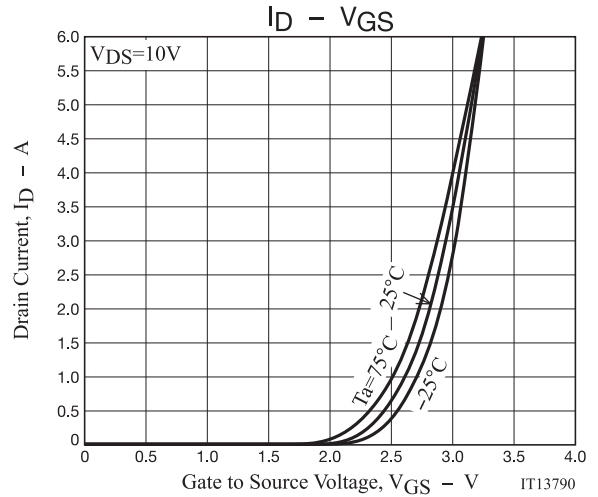
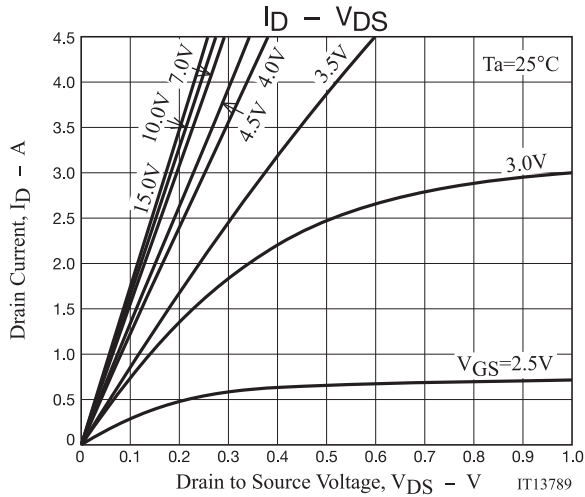
ELECTRICAL CHARACTERISTICS at Ta = 25°C (Note 2)

Parameter	Symbol	Conditions	Value			Unit
			min	typ	max	
Drain to Source Breakdown Voltage	V(BR)DSS	ID=1mA, VGS=0V	60			V
Zero-Gate Voltage Drain Current	IDSS	VDS=60V, VGS=0V			1	μA
Gate to Source Leakage Current	IGSS	VGS=±16V, VDS=0V			±10	μA
Gate Threshold Voltage	VGS(th)	VDS=10V, ID=1mA	1.2		2.6	V
Forward Transconductance	gFS	VDS=10V, ID=1.5A		2.6		S
Static Drain to Source On-State Resistance	RDS(on)1	ID=1.5A, VGS=10V		62	80	mΩ
	RDS(on)2	ID=0.75A, VGS=4.5V		76	106	mΩ
	RDS(on)3	ID=0.75A, VGS=4V		83	116	mΩ
Input Capacitance	Ciss	VDS=20V, f=1MHz		505		pF
Output Capacitance	Coss			57		pF
Reverse Transfer Capacitance	Crss			37		pF
Turn-ON Delay Time	td(on)	See specified Test Circuit		7.3		ns
Rise Time	tr			7.5		ns
Turn-OFF Delay Time	td(off)			41		ns
Fall Time	tf			22		ns
Total Gate Charge	Qg	VDS=30V, VGS=10V, ID=3A		10		nC
Gate to Source Charge	Qgs			1.6		nC
Gate to Drain "Miller" Charge	Qgd			2.1		nC
Forward Diode Voltage	VSD	IS=3A, VGS=0V		0.81	1.2	V

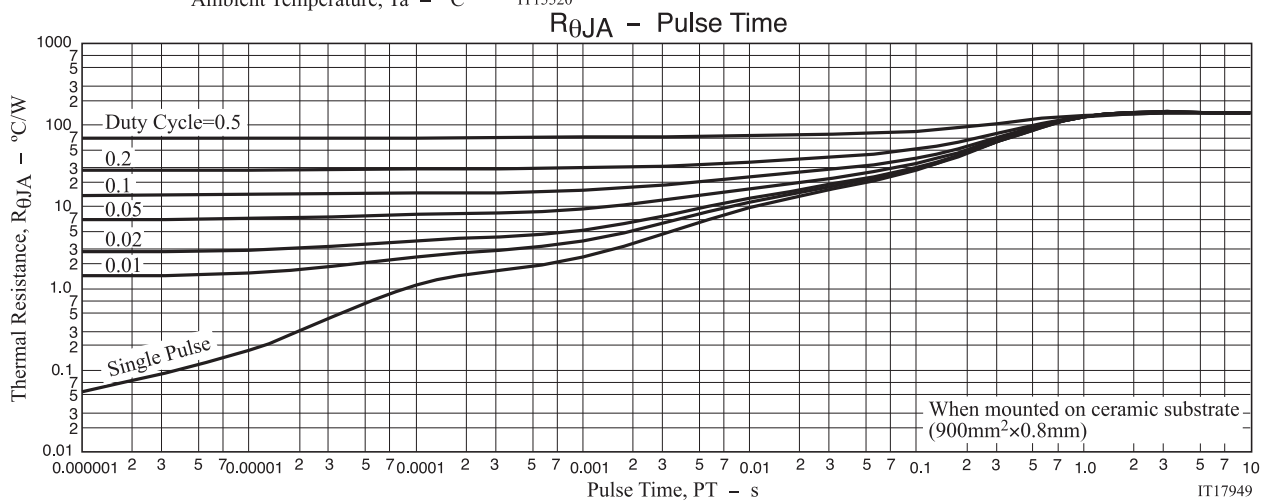
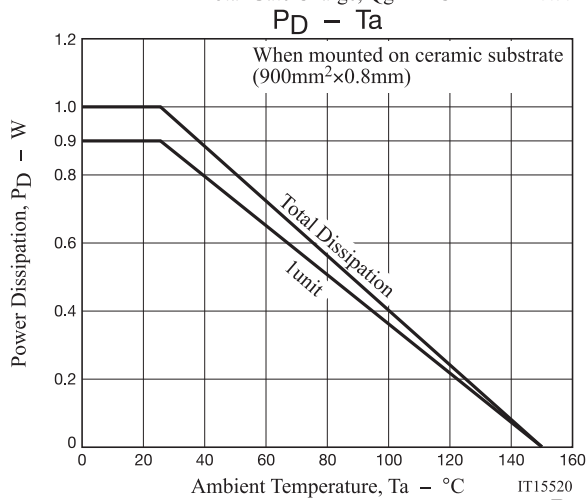
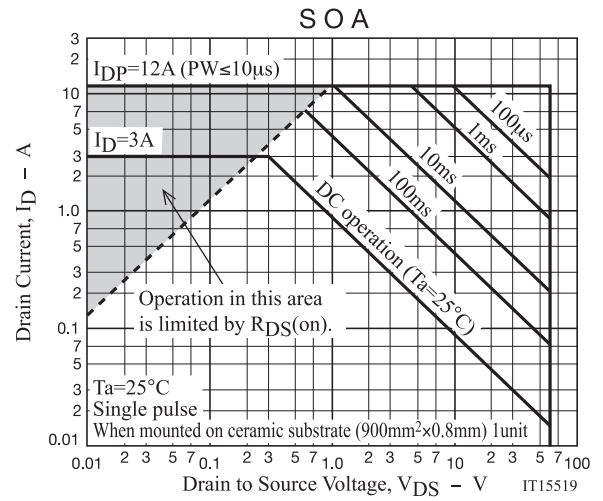
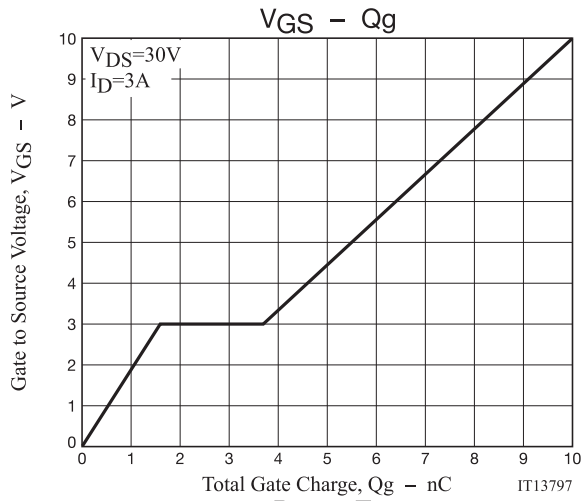
Note 2 : Product parametric performance is indicated in the Electrical Characteristics for the listed test conditions, unless otherwise noted.
Product performance may not be indicated by the Electrical Characteristics if operated under different conditions.

Switching Time Test Circuit





VEC2415

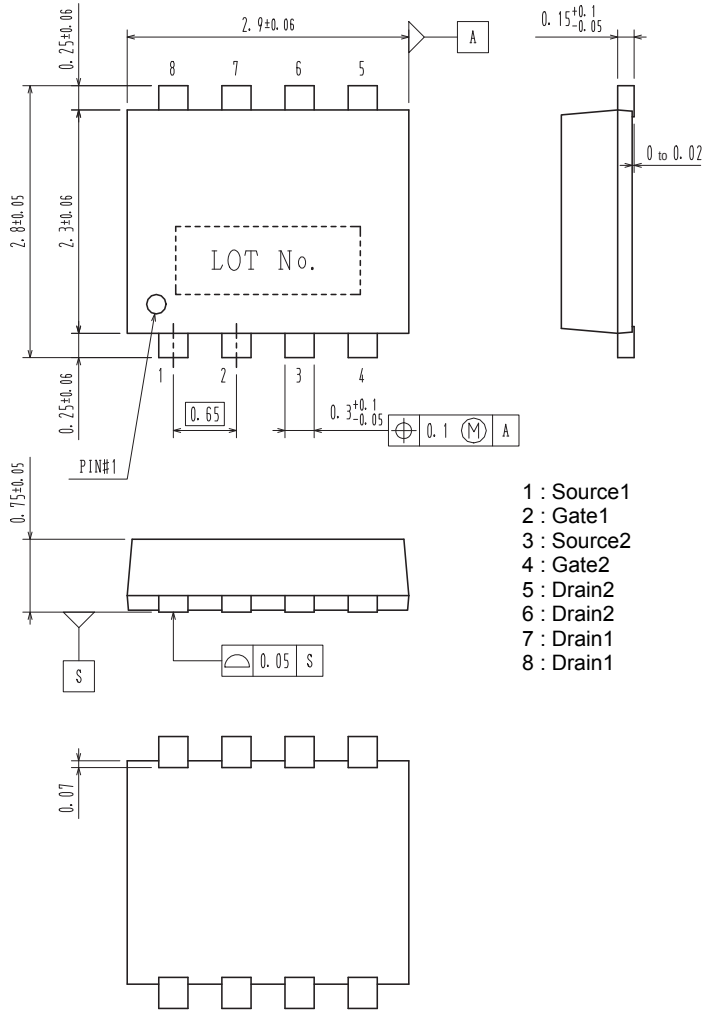


VEC2415

PACKAGE DIMENSIONS

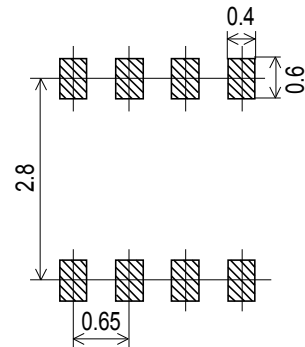
unit : mm

SOT-28FL / VEC8
CASE 318AH
ISSUE O



- 1 : Source1
- 2 : Gate1
- 3 : Source2
- 4 : Gate2
- 5 : Drain2
- 6 : Drain2
- 7 : Drain1
- 8 : Drain1

Recommended Soldering Footprint



ORDERING INFORMATION

Device	Marking	Package	Shipping (Qty / Packing)
VEC2415-TL-E	UN	SOT-28FL / VEC8 (Pb-Free)	3,000 / Tape & Reel
VEC2415-TL-W		SOT-28FL / VEC8 (Pb-Free / Halogen Free)	

† 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

Note on usage : Since the VEC2415 is a MOSFET product, please avoid using this device in the vicinity of highly charged objects.

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