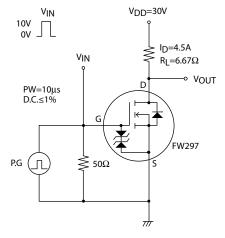
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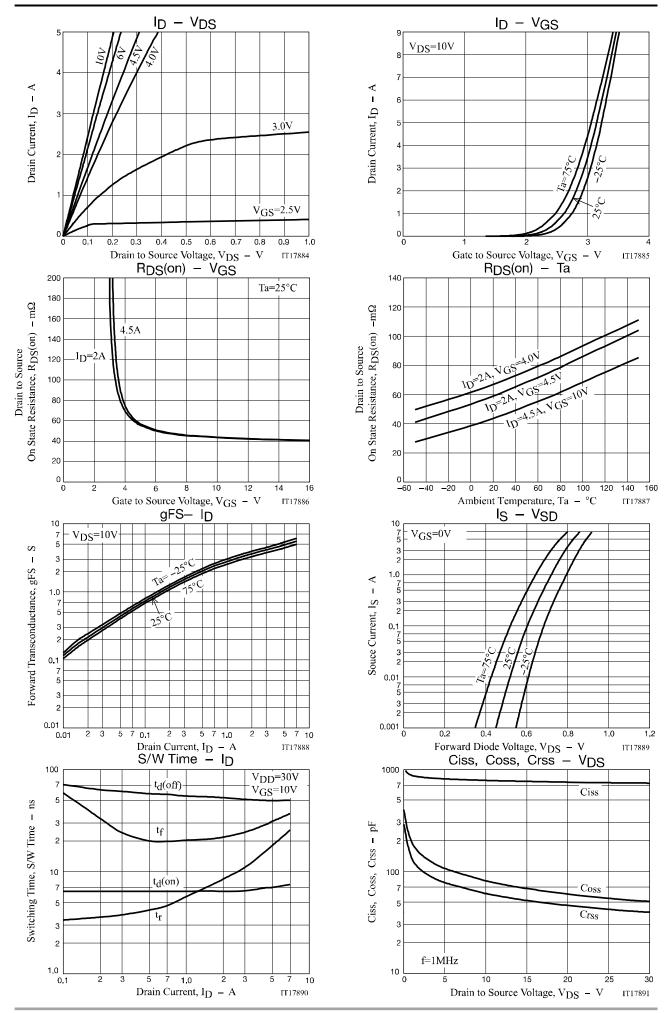
Electrical Characteristics at Ta = 25°C

Parameter	Symbol	Conditions		Value		
			min	typ	max	Unit
Drain to Source Breakdown Voltage	V(BR)DSS	I _D =1mA, V _{GS} =0V	60			٧
Zero-Gate Voltage Drain Current	IDSS	V _{DS} =60V, V _{GS} =0V			1	μΑ
Gate to Source Leakage Current	IGSS	V _{GS} =±16V, V _{DS} =0V			±10	μΑ
Gate Threshold Voltage	V _{GS} (th)	V _{DS} =10V, I _D =1mA	1.2		2.6	>
Forward Transconductance	9FS	V _{DS} =10V, I _D =4.5A		4.7		S
Static Drain to Source On-State Resistance	R _{DS} (on)1	I _D =4.5A, V _{GS} =10V		45	58	mΩ
	R _{DS} (on)2	I _D =2A, V _{GS} =4.5V		60	84	mΩ
	R _{DS} (on)3	I _D =2A, V _{GS} =4.0V		68	95	mΩ
Input Capacitance	Ciss	V _{DS} =20V, f=1MHz		750		pF
Output Capacitance	Coss			59		pF
Reverse Transfer Capacitance	Crss			47		pF
Turn-ON Delay Time	t _d (on)			7		ns
Rise Time	t _r	See specified Test Circuit		16		ns
Turn-OFF Delay Time	t _d (off)			50		ns
Fall Time	t _f			30		ns
Total Gate Charge	Qg	V _{DS} =30V, V _{GS} =10V, I _D =4.5A		14		nC
Gate to Source Charge	Qgs			2.3		nC
Gate to Drain "Miller" Charge	Qgd]		2.8		nC
Forward Diode Voltage	V _{SD}	I _S =4.5A, V _{GS} =0V		0.81	1.2	V

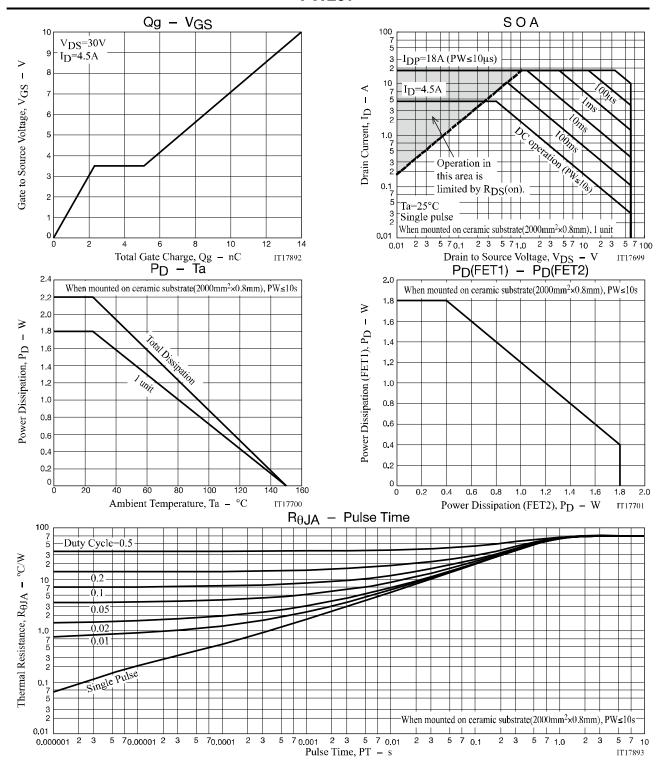
Product parametric performance is indicated in the Electrical Characteristics for the listed test conditions, unless otherwise noted. Product performance may not be indicated by the Electrical Characteristics if operated under different conditions.

Switching Time Test Circuit





FW297



Package Dimensions

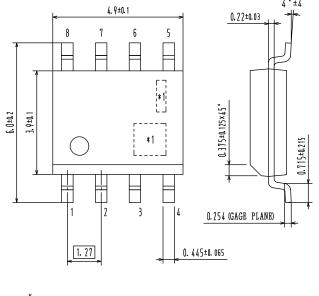
FW297-TL-2W

SOIC-8

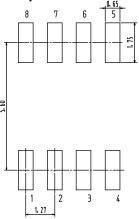
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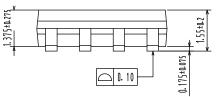
Unit: mm

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



Recommended Soldering Footprint





*1:Lot indication

ORDERING INFORMATION

Device	Package	Shipping	Note
FW297-TL-2W	SOIC8 SC-87, SOT-96	2,500 pcs. / Tape & Reel	Pb-Free and 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 FW297 is a MOSFET product, please avoid using this device in the vicinity of highly charged objects.

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