

Description

This N-Channel enhancement mode power FETs are produced with high cell density, DMOS trench technology, which is especially used to minimize on-state resistance. This device is suitable for use as a load switch, power management in PWM controlled DC/DC Converter and push-pull DC/AC Inverter Systems.

Features

- V_{DS} 60V, V_{GS} 20V, I_D 5.5A
- R_{DS(ON)}@10V, 30mΩ (typ.)
- R_{DS(ON)}@4.5V, 35mΩ (typ.)

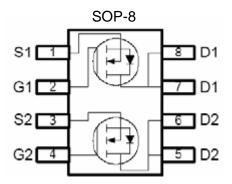
Absolute Maximum Ratings

Parameter	Symbol	Max	Unit
Drain-Source Voltage	V _{DSS}	60	V
Gate-Source Voltage	V_{GSS}	±20	V
Drain Current - Continuous	I _D	5.5	А
Total Power Dissipation (Note1,2)	PD	1	W
Operating and Storage Junction Temperature Range	T_J/T_{STG}	-55/150	°C

Note: 1. Surface Mounted on 1in pad area, t \leq 10sec.

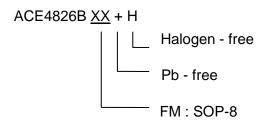
2. Rating for a single chip.

Packaging Type





Ordering information



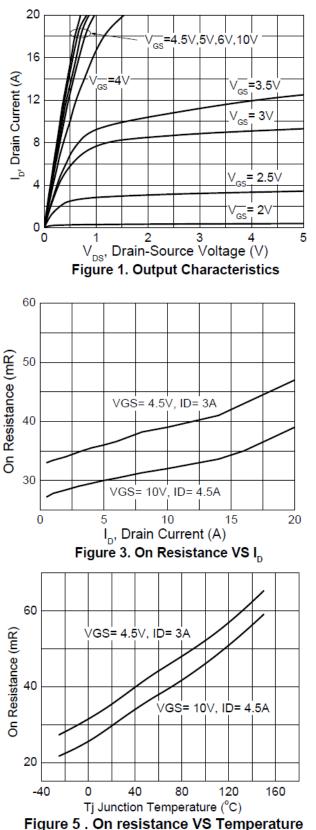
Electrical Characteristics

 $T_A\!\!=\!\!25^\circ\!\!\mathbb{C}$, unless otherwise noted.

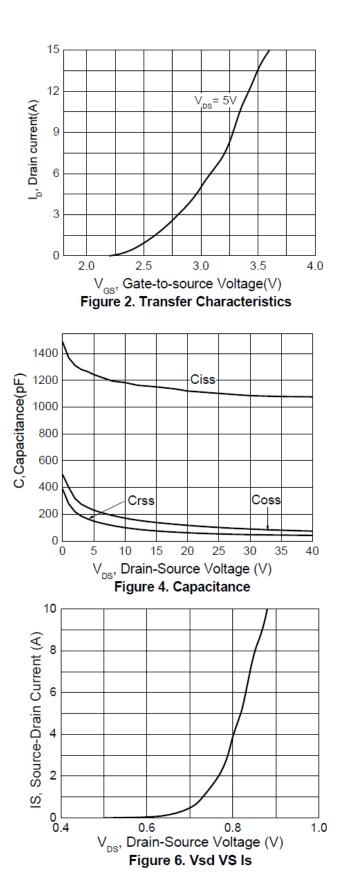
Parameter	Symbol	Conditions	Min.	Тур.	Max.	Unit			
Off characteristics									
Drain-Source Breakdown Voltage	$V_{(BR)DSS}$	V_{GS} =0V, I _D =250 uA	60			V			
Gate Leakage Current	I _{GSS}	$V_{DS}=0V, V_{GS}=\pm 20V$			±100	uA			
Zero Gate Voltage Drain Current	I _{DSS}	V _{DS} =60V, V _{GS} =0V			1	uA			
On characteristics									
Gate Threshold Voltage	V _{GS(th)}	$V_{DS}=V_{GS}$, $I_{DS}=250$ uA	1	1.4	3	V			
Drain-Source	R _{DS(ON)}	V _{GS} =10V, I _D =5.5A		30	41	mΩ			
On-Resistance		V_{GS} =4.5V, I _D =4.5A		35	52				
Drain-Source Diode Characteristics And Maximum Ratings									
Diode Forward Voltage	V_{SD}	I _S =2A, V _{GS} =0V	0.5	0.77	1	V			
Switching characteristics									
Turn-On Time	td(on)				15				
	tr	V_{GS} =10V, R _L =5.4 Ω , V _{DS} =30V,	0V, 2	20	nS				
Turn-Off Time	td(off)	$R_{GEN}=3\Omega$, $I_{D}=5.5A$			40	- 15			
	tf				15				
		Dynamic characteristics							
Input Capacitance	Ciss	V _{GS} =0V, V _{DS} =10V, f=1MHz		1180		рF			
Output Capacitance	Coss			170					
REVERSE Transfer Capacitance	Crss			100					



ACE4826B Dual N-Channel Enhancement Mode MOSFET

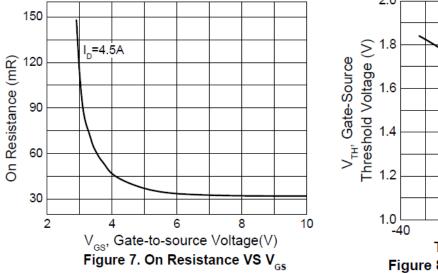


Typical Performance Characteristics

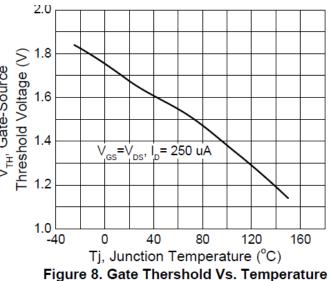




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Typical Performance Characteristics

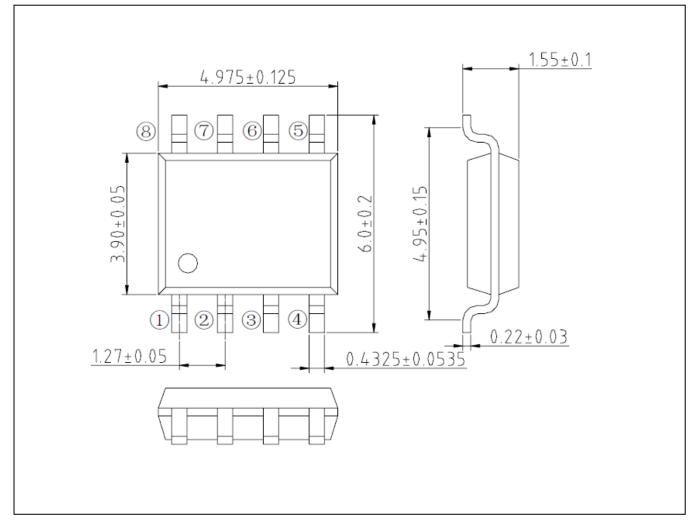




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Dual N-Channel Enhancement Mode MOSFET

Packing Information

SOP-8





Notes

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- 2. A critical component is any component of a life support device or system whose failure to perform can be reasonably expected to cause the failure of the life support device or system, or to affect its safety or effectiveness.

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