

Features

- Epoxy Meets UL 94 V-0 Flammability Rating
- · AEC-Q101 Qualified
- · Moisture Sensitivity Level 1
- Halogen Free. "Green" Device (Note 1)
- Lead Free Finish/RoHS Compliant ("P" Suffix Designates RoHS Compliant. See Ordering Information)

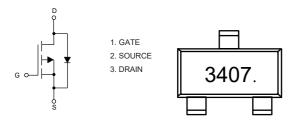
Maximum Ratings

- Operating Junction Temperature Range : -55°C to +150°C
- Storage Temperature Range: -55°C to +150°C
- Thermal Resistance: 96°C/W Junction to Ambient

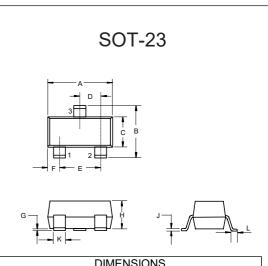
Parameter	Symbol	Rating	Unit
Drain-Source Voltage	V _{DS}	-30	V
Gate-Source Volltage	V _{GS}	±20	V
Continuous Drain Current	I _D	-4.1	Α
Total Power Dissipation	P _D	1.3	W

Note: 1. Halogen free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.

Internal Structure and Marking Code

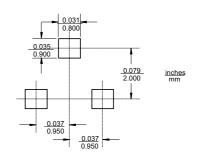


P-CHANNEL MOSFET



	DIMENSIONS				
DIM	INCHES		MM		NOTE
DIIVI	MIN	MAX	MIN	MAX	NOTE
Α	0.110	0.120	2.80	3.04	
В	0.083	0.104	2.10	2.64	
С	0.047	0.055	1.20	1.40	
D	0.034	0.041	0.85	1.05	
Е	0.067	0.083	1.70	2.10	
F	0.018	0.024	0.45	0.60	
G	0.0004	0.006	0.01	0.15	
Н	0.035	0.043	0.90	1.10	
J	0.003	0.007	0.08	0.18	
K	0.012	0.020	0.30	0.51	
L	0.007	0.020	0.20	0.50	

Suggested Solder Pad Layout





Electrical Characteristics @ 25°C (Unless Otherwise Specified)

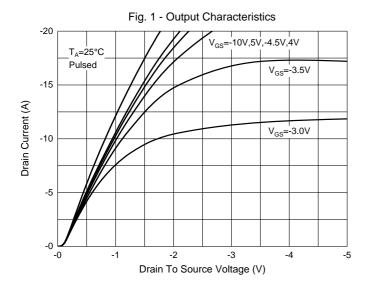
Parameter	Symbol	Test Conditions	Min	Тур	Max	Unit	
Static Characteristics	1		1		1		
Drain-Source Breakdown Voltage	V _{(BR)DSS}	V _{GS} =0V, I _D =-250μA	-30			V	
Gate-Source Leakage Current	I _{GSS}	V _{DS} =0V, V _{GS} =±20V			±100	nA	
Zero Gate Voltage Drain Current	I _{DSS}	V _{DS} =-24V, V _{GS} =0V			-1	μA	
Gate-Threshold Voltage	V _{GS(th)}	$V_{DS}=V_{GS}$, $I_{D}=-250\mu A$	-1	-1.4	-3	V	
Drain-Source On-Resistance ^(Note 2)	R _{DS(on)}	V _{GS} =-10V, I _D =-4.1A		50	60		
		V _{GS} =-4.5V, I _D =-3A		68	87	- mΩ	
Diode Forward Voltage ^(Note 2)	V _{SD}	V _{GS} =0V, I _S =-1A			-1.0	V	
Forward tranconductance ^(Note 2)	g _{FS}	V _{DS} =-5V, I _D =-4A	5.5			S	
Dynamic Characteristics(Note 3)			<u>'</u>				
Input Capacitance	C _{iss}			700		pF	
Output Capacitance	C _{oss}	V _{DS} =-15V,V _{GS} =0V,f=1MHz		120			
Reverse Transfer Capacitance	C _{rss}			75		1	
Turn-On Delay Time	t _{d(on)}			8.6			
Turn-On Rise Time	t _r	V _{GS} =-10V,V _{DS} =-15V,		5			
Turn-Off Delay Time	t _{d(off)}	R_L =3.6 Ω , R_{GEN} =3 Ω		28.2		ns	
Turn-Off Fall Time	t _f			13.5			

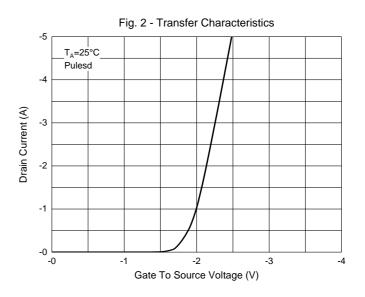
Note 2. Pulse Test : Pulse Width \leq 300 μ s, Duty Cycle \leq 2%.

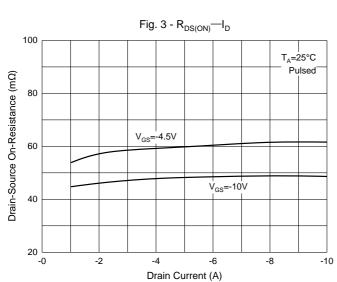
^{3.} These parameters have no way to verify.

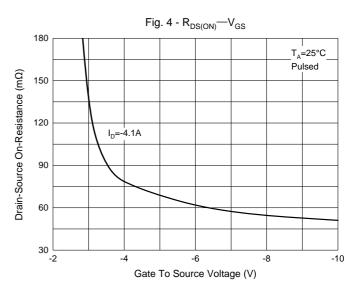


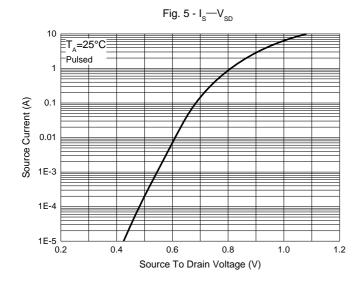
Curve Characteristics

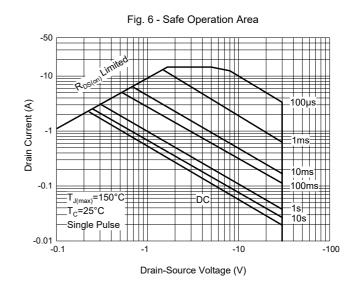














Ordering Information

Device	Packing	
SI3407HE3-TP	Tape&Reel: 3Kpcs/Reel	

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