


STP4407  Lead-free

P Channel Enhancement Mode MOSFET
- 10A

DESCRIPTION

The STP4407 is the P-Channel logic enhancement mode power field effect transistor is

STP4407

407



ode MOSFET
- 10A

d)

Max	Unit
	V
-2.5	V
±100	nA
-1	uA
-5	
20 32	mΩ
	S

f29(5)JJ/G813 TD[]IV,)5(V)JJ

TYPICAL CHARACTERISTICS

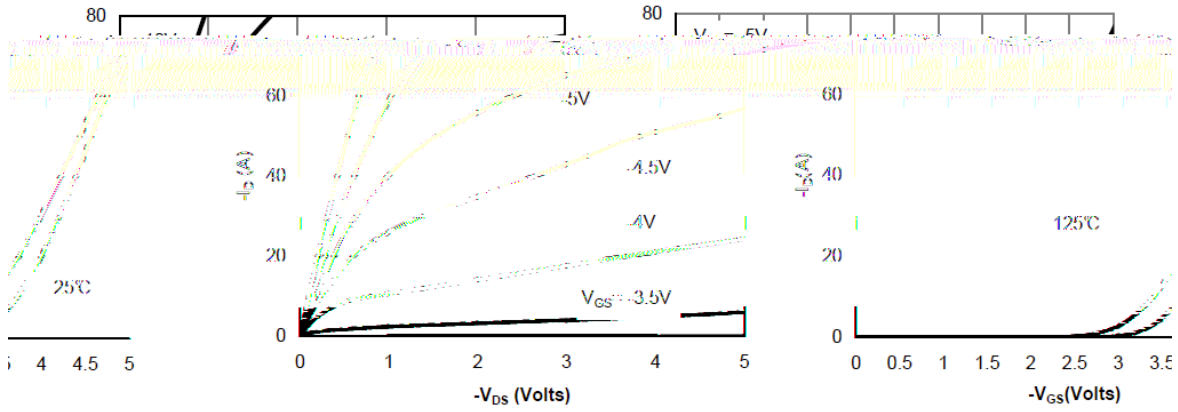


Figure 1: On-Region Characteristics

Figure 2: Transfer Characteristic

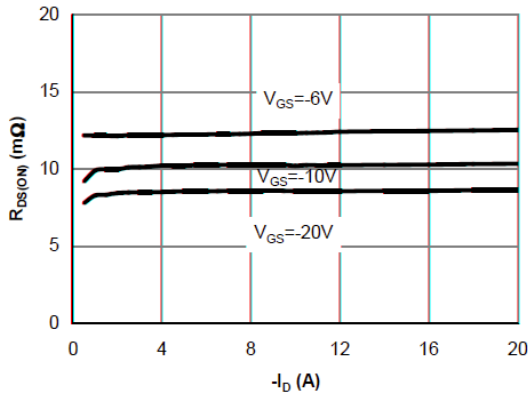
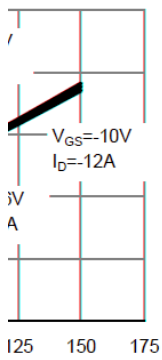


Figure 3: On-Resistance vs. Drain Current and Gate Voltage

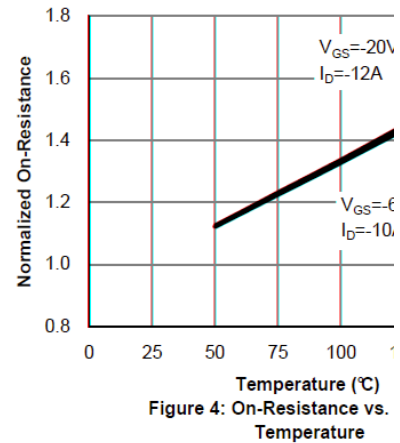


Figure 4: On-Resistance vs. Temperature

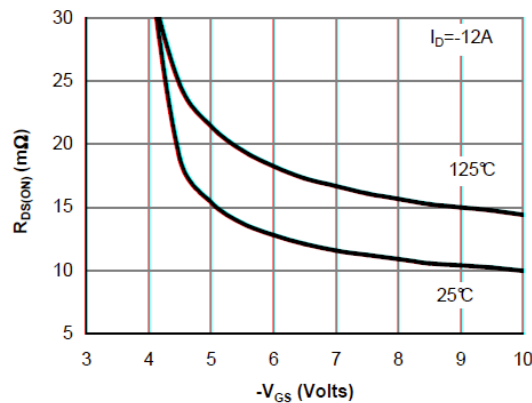
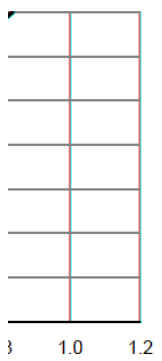


Figure 5: On-Resistance vs. Gate-Source Voltage

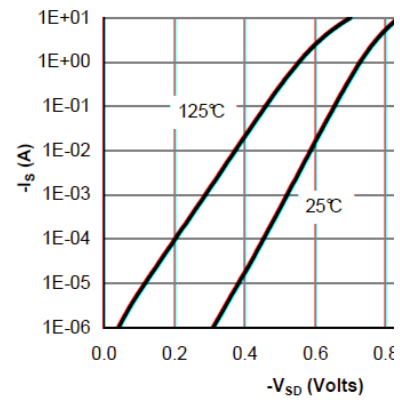
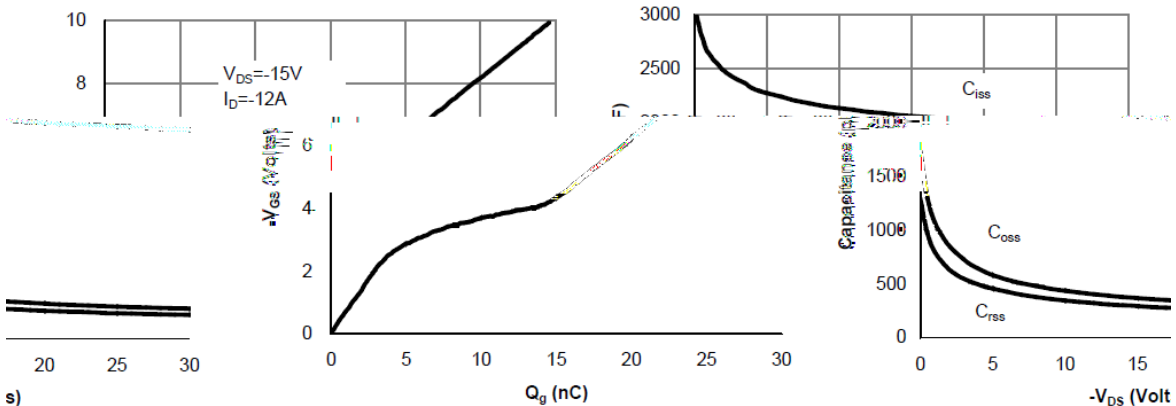


Figure 6: On-Resistance vs. Drain-Source Voltage

TYPICAL CHARACTERISTICS



s) Characteristics

Figure 7: Gate-Charge Characteristics

Figure 8: Capacitance Characteristics

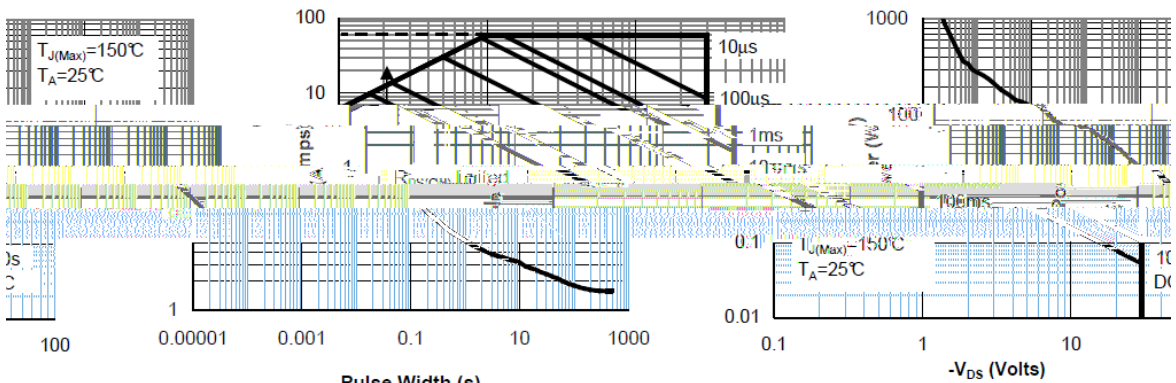
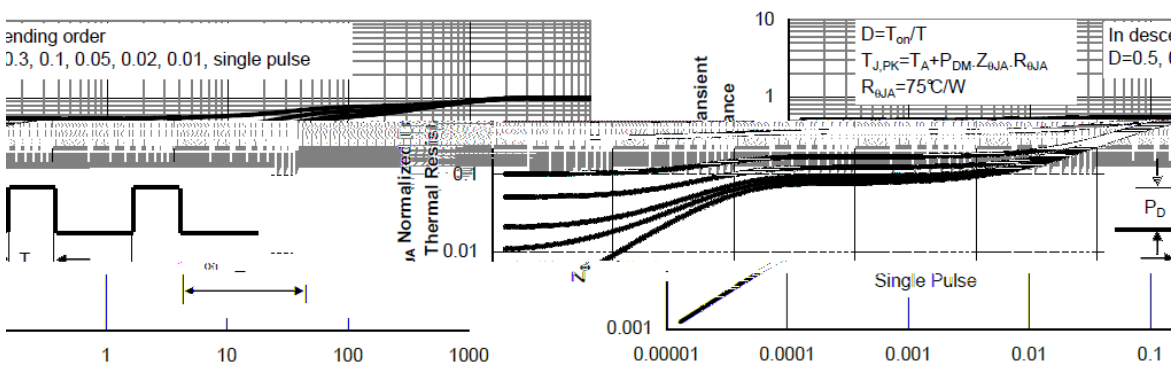


Figure 10: Single Pulse Power Rating Junction-to-Ambient (Note E)

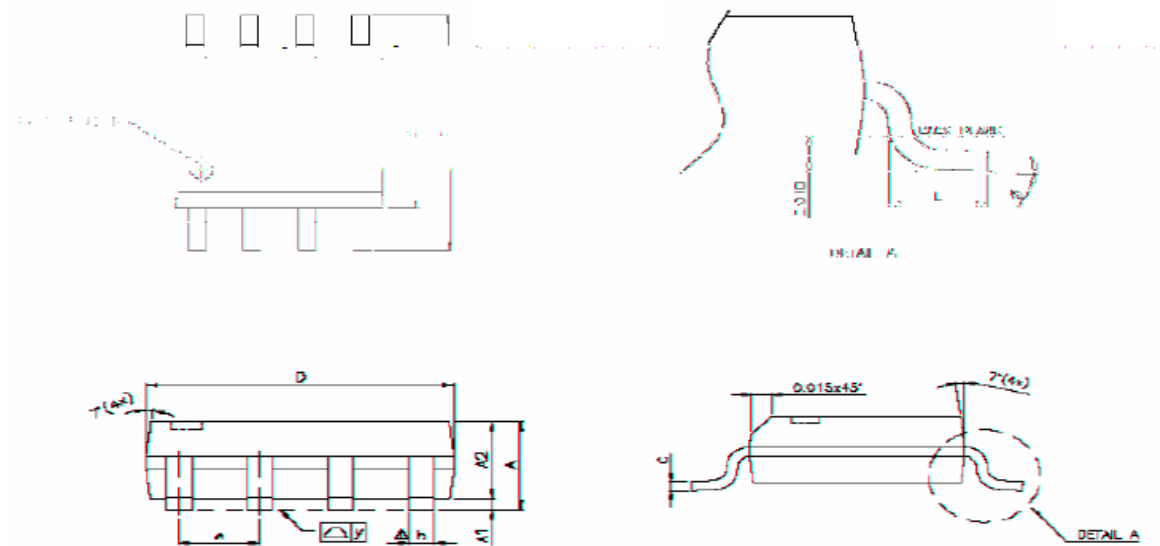
Figure 9: Maximum Forward Biased Safe Operating Area (Note E)



th (s) Normalized Thermal Impedance (Note E)

Figure 11: Normalized Maximum Transient Thermal Impedance (Note E)

PACKAGE OUTLINE SOP-8P



SYMBOLS	DIMENSIONS IN MILLIMETERS			DIMENSIONS IN INCHES		
	MIN	NOM	MAX	MIN	NOM	MAX
A	1.47	1.60	1.73	0.059	0.063	0.069
B	4.2	4.5	4.8	0.165	0.177	0.191
C	0.025	0.025	0.025	0.001	0.001	0.001
D	0.0085	0.19	0.20	0.0003	0.0075	0.008
E	0.195	4.80	4.85	0.008	0.189	0.191
F	0.008	0.008	0.008	0.0003	0.0003	0.0003
G	0.008	0.008	0.008	0.0003	0.0003	0.0003
H	0.008	0.008	0.008	0.0003	0.0003	0.0003
I	0.008	0.008	0.008	0.0003	0.0003	0.0003
J	0.008	0.008	0.008	0.0003	0.0003	0.0003
K	0.008	0.008	0.008	0.0003	0.0003	0.0003
L	0.008	0.008	0.008	0.0003	0.0003	0.0003
M	0.008	0.008	0.008	0.0003	0.0003	0.0003
N	0.008	0.008	0.008	0.0003	0.0003	0.0003
O	0.008	0.008	0.008	0.0003	0.0003	0.0003
P	0.008	0.008	0.008	0.0003	0.0003	0.0003
Q	0.008	0.008	0.008	0.0003	0.0003	0.0003
R	0.008	0.008	0.008	0.0003	0.0003	0.0003
S	0.008	0.008	0.008	0.0003	0.0003	0.0003
T	0.008	0.008	0.008	0.0003	0.0003	0.0003
U	0.008	0.008	0.008	0.0003	0.0003	0.0003
V	0.008	0.008	0.008	0.0003	0.0003	0.0003
W	0.008	0.008	0.008	0.0003	0.0003	0.0003
X	0.008	0.008	0.008	0.0003	0.0003	0.0003
Y	0.008	0.008	0.008	0.0003	0.0003	0.0003
Z	0.008	0.008	0.008	0.0003	0.0003	0.0003