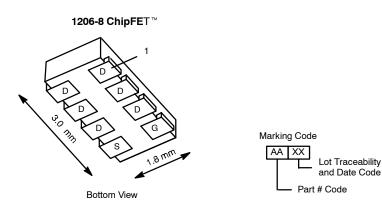
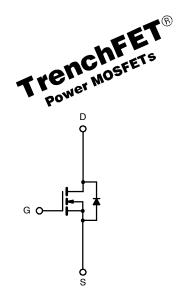


N-Channel 30-V (D-S) MOSFET

PRODUCT SUMMARY					
V _{DS} (V)	$r_{DS(on)}\left(\Omega\right)$	I _D (A)			
30	0.035 @ V _{GS} = 10 V	±6.7			
	0.055 @ V _{GS} = 4.5 V	±5.3			





N-Channel MOSFET

Ordering Information: Si5402DC-T1

ABSOLUTE MAXIMUM RATINGS (T _A = 25°C UNLESS OTHERWISE NOTED)								
Parameter		Symbol	5 secs	Steady State	Unit			
Drain-Source Voltage		V _{DS}	30		٧			
Gate-Source Voltage		V _{GS}	±20					
Outline Desir Owner (T. 45000)	T _A = 25°C		±6.7	± 4.9				
Continuous Drain Current (T _J = 150°C) ^a	T _A = 85°C	l _D	±4.8	±3.5				
Pulsed Drain Current		I _{DM}	±20		Α			
Continuous Source Current (Diode Conduction) ^a		I _S	2.1	1.1	1			
M ·	T _A = 25°C	- P _D	2.5	1.3	w			
Maximum Power Dissipation ^a	T _A = 85°C		1.3	0.7				
Operating Junction and Storage Temperature Range		T _J , T _{stg}	-55 to 150		°C			
Soldering Recommendations (Peak Temperature)b, c			260					

THERMAL RESISTANCE RATINGS								
Parameter		Symbol	Typical	Maximum	Unit			
	t ≤ 5 sec	_	40	50				
Maximum Junction-to-Ambient ^a	Steady State	R _{thJA}	80	95	°C/W			
Maximum Junction-to-Foot (Drain)	Steady State	R _{thJF}	15	20	1			

Notes

- a. Surface Mounted on 1" x 1" FR4 Board.
- b. See Reliability Manual for profile. The ChipFET is a leadless package. The end of the lead terminal is exposed copper (not plated) as a result of the singulation process in manufacturing. A solder fillet at the exposed copper tip cannot be guaranteed and is not required to ensure adequate bottom side solder interconnection.
- c. Rework Conditions: manual soldering with a soldering iron is not recommended for leadless components.