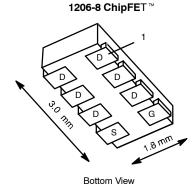
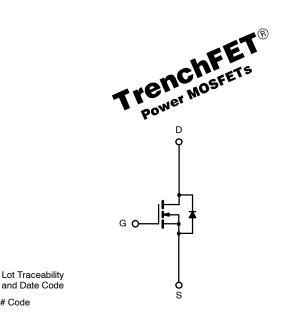


N-Channel 30-V (D-S) MOSFET

PRODUCT SUMMARY					
V _{DS} (V)	r _{DS(on)} (Ω)	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		v			
Gate-Source Voltage		V _{GS}	±20					
	$T_A = 25^{\circ}C$	- I _D	±6.7	±4.9				
Continuous Drain Current (T _J = 150°C) ^a	$T_A = 85^{\circ}C$		±4.8	±3.5				
Pulsed Drain Current		I _{DM}	±20		Α			
Continuous Source Current (Diode Conduction) ^a		۱ _S	2.1	1.1				
	$T_A = 25^{\circ}C$	PD	2.5	1.3	w			
Maximum Power Dissipation ^a	$T_A = 85^{\circ}C$		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					

Marking Code AA XX

Part # Code

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

Notes

Surface Mounted on 1" x 1" FR4 Board. a.

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 interconb. nection.

c. Rework Conditions: manual soldering with a soldering iron is not recommended for leadless components.