

**General Description**

It combines advanced trench MOSFET technology with a low resistance package to provide extremely low $R_{DS(ON)}$.

Features

device constructure
 $R_{DS(ON)}$ to minimize conduction loss

Product Summary**Application**

Synchronous Rectification for AC-DC/DC-DC converter
 Power Tools

Ordering Information:**Absolute Maximum Ratings** $T_C = 25$

Parameter	Symbol	Rating	Unit
Drain-Source Voltage	V_{DS}	60	V
Gate-Source Voltage	V_{GS}	± 20	V
Continuous Drain Current	$I_{D@TC=25}$	50	A
	$I_{D@TC=75}$	38	A
	$I_{D@TC=100}$	31.5	A
Pulsed Drain Current	I_{DM}	150	A
Total Power Dissipation($TC=25$)	$P_D@TC=25$	85	W
Total Power Dissipation($TA=25$)	$P_D@TA=25$	3.4	W
Operating Junction Temperature	T_J	-55 to 150	
Storage Temperature	T_{STG}	-55 to 150	
Single Pulse Avalanche Energy@ $L=0.1mH$	E_{AS}	85	mJ



Thermal resistance

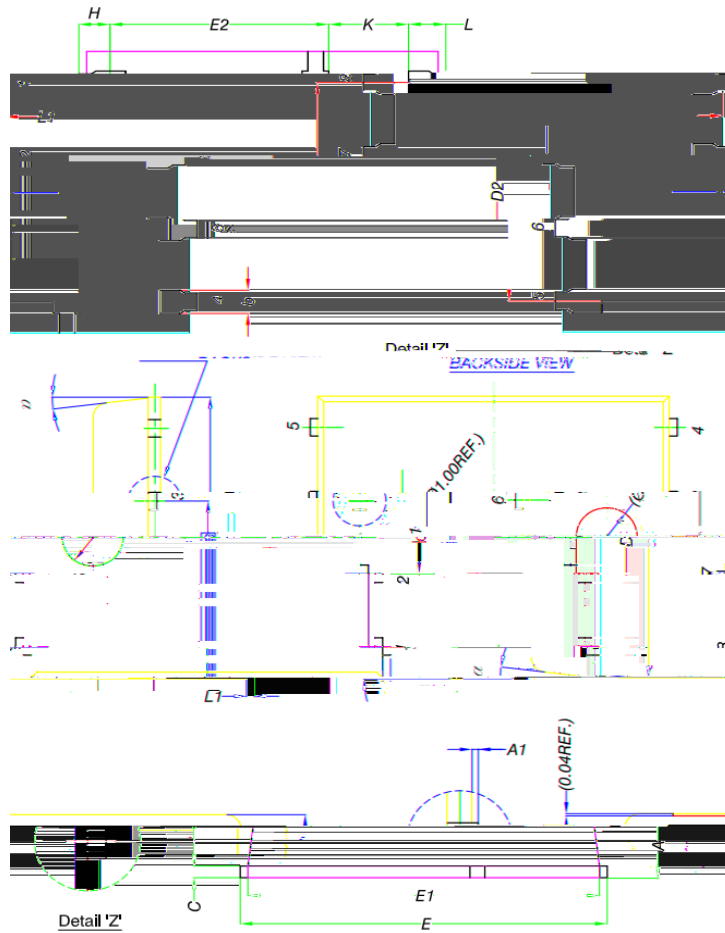
Parameter	Symbol	Min.	Typ.	Max.	Unit
Thermal resistance, junction					





Dimensions DFN5x6

Unit mm



MILLIMETERS

D2	4.80	4.90	5.00
D2	3.67	3.81	3.96
	5.90	6.00	6.10
E1	5.70	5.78	5.86
e	1.27 BSC		
	0.41	0.51	0.61
	H		
	K		
	0.51	0.61	0.71
	0.51	0.61	0.71
	12°		