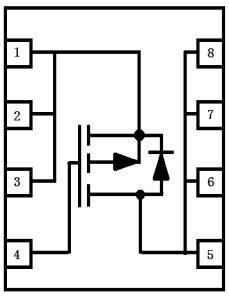
PB8532D

100V P-Channel Power MOSFET

Pin 1
DFN3333-8A



1. FEATURES

- Low RDS(on) trench technology
- Low thermal impedance
- Fast switching speed
- We declare that the material of product compliance with RoHS requirements and Halogen Free.

2. APPLICATIONS

- Load Switches
- DC/DC Conversion
- Motor Drives

3. DEVICE MARKING AND ORDERING INFORMATION

Device	Marking	Shipping
PB8532D	PB3	2000/Tape&Reel

4. MAXIMUM RATINGS(Ta = 25ºC)

Parameter		Symbol	Limits	Unit
Drain–Source Voltage		VDS	-100	V
Gate-Source Voltage		VGS	±20	V
Continuous Drain Current(Note 1)	TA =25°C	ID	-4	A
	TA =70°C		-3.5	
Pulsed Drain Current(Note 2)		IDM	-16	
Power Dissipation(Note 1)	TA =25°C	PD	2.5	W
	TA =70°C		1.9	
Junction and Storage Temperature Range		TJ,TSTG	-55~+150	℃

5. THERMAL CHARACTERISTICS

Parameter	Symbol	Limits	Unit
Maximum Junction-to-Ambient (Note1)	RθJA	50	℃/W
Maximum Junction-to-Case	RθJC	6	

1.Surface Mounted on 1.5” x 1.5” FR4 Board.

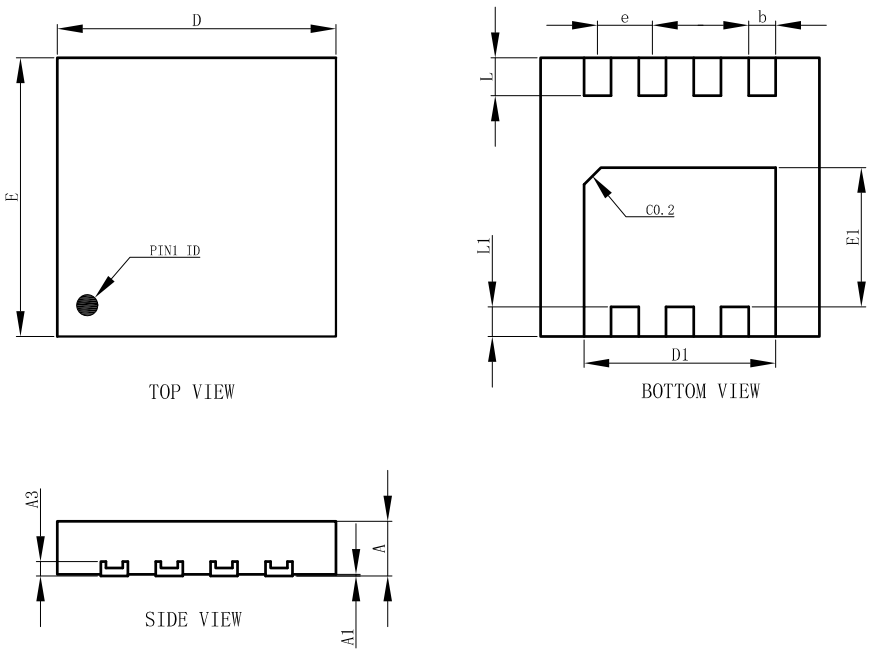
2.Pulse width limited by maximum junction temperature

6. ELECTRICAL CHARACTERISTICS (Ta= 25℃)

Characteristic		Symbol	Min.	Typ.	Max.	Unit
Static						
Drain–Source Breakdown Voltage (VGS = 0, ID = -250μA)		VBRDSS	-100	-	-	V
Gate Threshold Voltage (VDS = VGS, ID = -250μA)		VGS(th)	-1	-	-3	V
Zero Gate Voltage Drain Current (VGS = 0, VDS = -80 V)		IDSS	-	-	-1	μA
Gate–Body Leakage Current (VDS =0V, VGS = ±20V)		IGSS	-	-	±1	μA
Static Drain–Source On–State Resistance (VGS = -10 V, ID = -4 A)		RDS(on)	-	-	127	mΩ
Diode Forward Voltage (IS =-1A,VGS =0V)		VSD	-		-	V
Dynamic						
Input Capacitance	(VGS =0V, VDS =-50V, f=1MHz)	Ciss	-	TBD	-	pF
Output Capacitance		Coss	-	TBD	-	
Reverse Transfer Capacitance		Crss	-	TBD	-	
Total Gate Charge	(VDS = -50 V, VGS = -10 V,ID = -4 A)	Qg	-	TBD	-	nC
Gate Source Charge		Qgs	-	TBD	-	
Gate Drain Charge		Qgd	-	TBD	-	
Turn-On DelayTime	(VDD=-50 V,RL =12.5Ω,ID = -4 A,VGEN = -10 V)	td(on)	-	TBD	-	ns
Turn-On Rise Time		tr	-	TBD	-	
Turn-Off DelayTime		td(off)	-	TBD	-	
Turn-Off Fall Time		tf	-	TBD	-	

7.OUTLINE AND DIMENSIONS

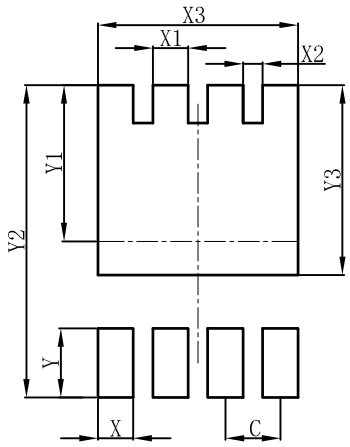
DFN3333-8A



DFN3333-8A			
DIM	MIN	NOR	MAX
A	0.60	0.65	0.70
A1	0.00	0.03	0.05
b	0.27	0.32	0.37
D	3.25	3.30	3.35
E	3.25	3.30	3.35
D1	2.22	2.27	2.32
E1	1.60	1.65	1.70
e	0.65BSC		
L	0.40	0.45	0.50
L1	0.30	0.35	0.40
A3	0.152REF.		
All Dimensions in mm			

8.SOLDERING FOOTPRINT

DFN3333-8A



DFN3333-8A	
DIM	(mm)
C	0.65
X	0.42
X1	0.42
X2	0.23
X3	2.37
Y	0.70
Y1	1.85
Y2	3.70
Y3	2.25