



### Product Summary

BV <sub>DSS</sub>	- 30V
R <sub>DS(ON)</sub>	60 mΩ
I <sub>D</sub>	- 2.0A

### Application

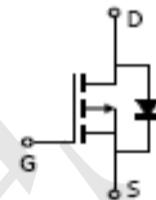
- Load/Power Switching
- Interfacing Switching
- Logic Level Shift

### Package and Pin Configuration

SOT-23



Circuit diagram



**Marking: 360P or B11**

### Absolute Maximum Ratings ( $T_A=25^\circ\text{C}$ unless otherwise noted)

Symbol	Parameter		Max.	Units
V <sub>DSS</sub>	Drain-Source Voltage		-30	V
V <sub>GSS</sub>	Gate-Source Voltage		±20	V
I <sub>D</sub>	Continuous Drain Current	T <sub>A</sub> = 25°C	-2	A
I <sub>DM</sub>	Pulsed Drain Current <sup>note1</sup>		-15	A
P <sub>D</sub>	Power Dissipation	T <sub>A</sub> = 25°C	1.2	W
R <sub>θJA</sub>	Thermal Resistance, Junction to Ambient		125	°C/W
T <sub>J</sub> , T <sub>STG</sub>	Operating and Storage Temperature Range		-55 to +150	°C



Electrical Characteristics (  $T_A = 25^\circ\text{C}$  unless otherwise noted )

Symbol	Parameter	Test Condition	Min.	Typ.	Max.	Units
<b>Off Characteristic</b>						
$V_{(\text{BR})\text{DSS}}$	Drain-Source Breakdown Voltage	$V_{\text{GS}}=0\text{V}, I_D = -250\mu\text{A}$	-30	-	-	V
$I_{\text{DSS}}$	Zero Gate Voltage Drain Current	$V_{\text{DS}} = -20\text{V}, V_{\text{GS}} = 0\text{V},$	-	-	-1	$\mu\text{A}$
$I_{\text{GSS}}$	Gate to Body Leakage Current	$V_{\text{DS}} = 0\text{V}, V_{\text{GS}} = \pm 20\text{V}$	-	-	$\pm 100$	nA
<b>On Characteristics</b>						
$V_{\text{GS}(\text{th})}$	Gate Threshold Voltage	$V_{\text{DS}} = V_{\text{GS}}, I_D = -250\mu\text{A}$	-1.0	-	-3.0	V
$R_{\text{DS}(\text{on})}$ note2	Static Drain-Source on-Resistance	$V_{\text{GS}} = -4.5\text{V}, I_D = -2.2\text{A}$	-	60	90	$\text{m}\Omega$
		$V_{\text{GS}} = -2.5\text{V}, I_D = -2.0\text{A}$	-	80	110	
$V_{\text{SD}}$	Drain to Source Diode Forward Voltage				-1.2	V
<b>Dynamic Characteristics</b>						
$C_{\text{iss}}$	Input Capacitance	$V_{\text{DS}} = -10\text{V}, V_{\text{GS}} = 0\text{V},$ $f = 1\text{ MHZ}$	-	300	-	pF
$C_{\text{oss}}$	Output Capacitance		-	145	-	pF
<b>Switching Characteristics</b>						
$t_{\text{d}(\text{on})}$	Turn-on Delay Time	$(V_{\text{DS}} = 5\text{V}, V_{\text{GS}} = 4.5\text{V}, R_{\text{GEN}} = 6\Omega)$	-	5	-	ns
$t_{\text{d}(\text{off})}$	Turn-off Delay Time		-	17	-	ns



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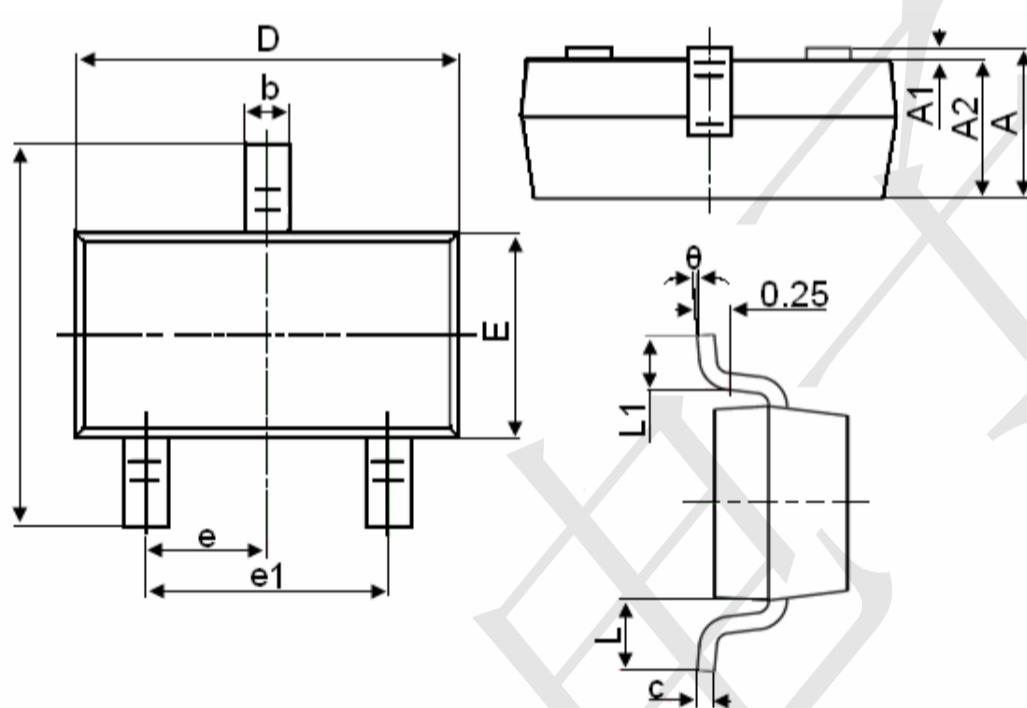
台舟电子

FDN360P

Single P-Channel PowerTrench MOSFET

[www.sot23.com.tw](http://www.sot23.com.tw)

### SOT-23 Package Information



Symbol	Dimensions in Millimeters	
	MIN.	MAX.
A	0.900	1.150
A1	0.000	0.100
A2	0.900	1.050
b	0.300	0.500
c	0.080	0.150
D	2.800	3.000
E	1.200	1.400
E1	2.250	2.550
e	0.950TYP	
e1	1.800	2.000
L	0.550REF	
L1	0.300	0.500
θ	0°	8°