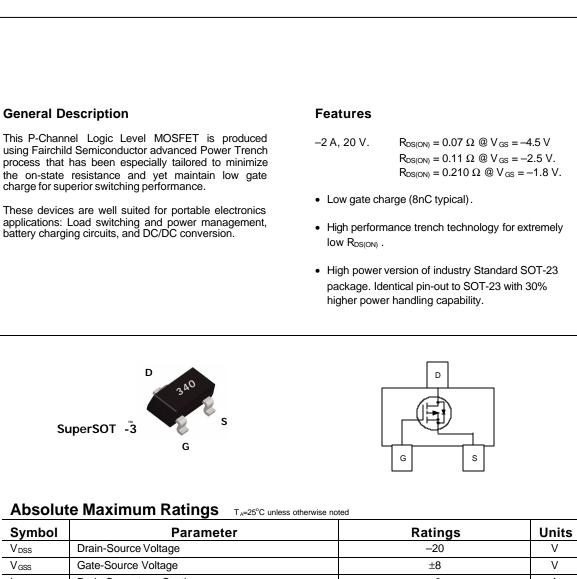


FDN340P





V DSS	Drain-Source voltage		-20	V
V _{GSS}	Gate-Source Voltage		±8	V
b	Drain Current – Continuous	(Note 1a)	-2	A
	– Pulsed		-10	
P₀	Power Dissipation for Single Operation	(Note 1a)	0.5	w
		(Note 1b)	0.46	vv
т т	Operating and Storage Junction Temperat	uro Pongo	-55 to +150	℃
Tj, T _{stg}	Operating and Storage Junction Temperat	ule Kaliye	-33 10 +130	U
	al Characteristics	(Note 1a)	-55 10 + 150	°c,w

Package Marking and Ordering Information

Device Marking	Device	Reel Size	Tape width	Quantity
340	FDN340P	7"	8mm	3000 units



FDN340P

Cteristics Drain–Source Breakdown Voltage Breakdown Voltage Temperature Coefficient Cero Gate Voltage Drain Current Gate–Body Leakage, Forward Gate–Body Leakage, Reverse Cteristics Chore 2) Gate Threshold Voltage Gate Threshold Voltage Gate Threshold Voltage	$V_{GS} = 0 \text{ V}, \text{b} = -250 \mu\text{A}$ $I_{b} = -250 \mu\text{A}, \text{Referenced to } 25^{\circ}\text{C}$ $V_{DS} = -16 \text{ V}, V_{GS} = 0 \text{ V}$ $T_{J} = 55^{\circ}\text{C}$ $V_{GS} = 8 \text{ V}, V_{DS} = 0 \text{ V}$ $V_{GS} = -8 \text{ V} V_{DS} = 0 \text{ V}$ $V_{DS} = -8 \text{ V} V_{DS} = 0 \text{ V}$ $V_{DS} = -8 \text{ V} V_{DS} = 0 \text{ V}$	-20	-15	-1 -10 100 -100	V mV/°C μA nA nA
Coefficient Coefficient Coefficient Cero Gate Voltage Drain Current Gate–Body Leakage, Forward Cate–Body Leakage, Reverse Ceteristics (Note 2) Cate Threshold Voltage Cate Threshold Voltage	$\begin{split} & b = -250 \; \mu \text{A}, \text{Referenced to } 25^\circ\text{C} \\ & V_{DS} = -16 \; \text{V}, V_{GS} = 0 \; \text{V} \\ & T_J = 55^\circ\text{C} \\ & V_{GS} = 8 \; \text{V}, V_{DS} = 0 \; \text{V} \\ & V_{GS} = -8 \; \text{V} V_{DS} = 0 \; \text{V} \\ & V_{DS} = V_{CS}, \; b = -250 \; \mu\text{A} \end{split}$		-15	-10 100	mV/°C μA nA
Coefficient Gate-Body Leakage, Forward Gate-Body Leakage, Reverse Cteristics (Note 2) Gate Threshold Voltage Gate Threshold Voltage	$V_{DS} = -16 V, V_{GS} = 0 V$ $T_{J} = 55^{\circ}C$ $V_{GS} = 8 V, V_{DS} = 0 V$ $V_{GS} = -8 V V_{DS} = 0 V$ $V_{DS} = -250 \mu A$	-0.4	-15	-10 100	μA nA
Gate-Body Leakage, Forward Gate-Body Leakage, Reverse Cteristics (Note 2) Gate Threshold Voltage Gate Threshold Voltage	$T_{J}=55^{\circ}C$ $V_{GS} = 8 V, V_{DS} = 0 V$ $V_{GS} = -8 V V_{DS} = 0 V$ $V_{DS} = V_{GS}, l_{D} = -250 \mu\text{A}$	-0.4		-10 100	nA
Gate-Body Leakage, Reverse cteristics (Note 2) Gate Threshold Voltage Gate Threshold Voltage	$V_{GS} = -8 V$ $V_{DS} = 0 V$ $V_{DS} = V_{GS}, I_D = -250 \mu A$	-0.4			
cteristics (Note 2) Gate Threshold Voltage Gate Threshold Voltage	$V_{GS} = -8 V$ $V_{DS} = 0 V$ $V_{DS} = V_{GS}, I_D = -250 \mu A$	-0.4		-100	nA
Gate Threshold Voltage Gate Threshold Voltage		-0.4			
Gate Threshold Voltage Gate Threshold Voltage		-0.4	-		
Sate Threshold Voltage			-0.9	-1.5	V
	$I_{\rm D} = -250 \mu\text{A}$, Referenced to 25 C	-	2.7		mV/ºC
static Drain–Source	$V_{GS} = -4.5 \text{ V}, I_D = -2 \text{ A}$		0.052	0.07	Ω
On-Resistance	T,=125°C		0.075	0.12	
	$V_{GS} = -2.5 \text{ V}, I_D = -1.7 \text{ A},$		0.078	0.11	
	$V_{GS} = -1.8 \text{ V}, I_D = -1.2 \text{ A},$			0.21	
Dn–State Drain Current	$V_{GS} = -4.5 V$, $V_{DS} = -5 V$	-5			А
orward Transconductance	$V_{DS} = -4.5 V$, $I_D = -2 A$		8		S
haracteristics					
nput Capacitance	$V_{DS} = -10 V$, $V_{GS} = 0 V$.		600		pF
Dutput Capacitance	f = 1.0 MHz		175		pF
Reverse Transfer Capacitance			80		pF
Characteristics (Note 3)			1		
	$V_{DD} = -5 V_{c}$ $b = -0.5 A_{c}$		6	12	ns
urn-On Rise Time	$V_{GS} = -4.5 \text{ V}, R_{GEN} = 6 \Omega$		9	18	ns
	-		31	50	ns
urn–Off Fall Time	-		26	42	ns
otal Gate Charge	$V_{DS} = -10V$, $I_D = -2A$,		8	11	nC
Gate-Source Charge	$V_{GS} = -4.5 V$		1.3		nC
8			1.3 2.2		
Gate–Source Charge Gate–Drain Charge	$V_{GS} = -4.5 V$				nC
Gate-Source Charge	V _∞ = -4.5 V and Maximum Ratings			-0.42	nC
	In-State Drain Current orward Transconductance Characteristics Input Capacitance Intput Capacitance everse Transfer Capacitance Characteristics (Note 2) urn-On Delay Time urn-Off Delay Time urn-Off Fall Time	$\frac{ I_{J}=125^{\circ}C }{ V_{GS}=-2.5 \text{ V}, _{D}=-1.7 \text{ A}, _{V}} = \frac{ _{V}=125^{\circ}C }{ V_{GS}=-2.5 \text{ V}, _{D}=-1.2 \text{ A}, _{V}=-1.2 \text{ A}, _{V}=-2 \text{ A}, _{V}=-2$	$\begin{array}{c c c c c c c c } & & & & & & & & & & & & & & & & & & &$	$\begin{array}{c c c c c c c c c c c c c c c c c c c $	$\begin{array}{ c c c c c c c } & & & & & & & & & & & & & & & & & & &$

TY Semicondutor[®]

TY