

Applications

- High speed switching and rectification
- Switching mode power supply

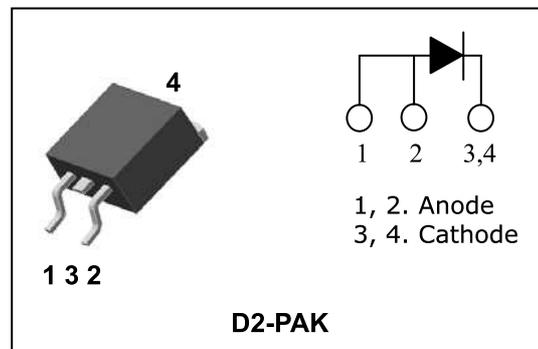
Features

- Ultra-fast reverse recovery time: $t_{rr}=30\text{ns}$ Max.
- Low forward voltage & low reverse current
- Low switching loss

Ordering Information

Type No.	Marking	Package Code
SF10A400HDS	SF10A400HDS	D2-PAK

PIN Connection



Absolute Maximum Ratings

[Tc=25°C]

Characteristic	Symbol	Rating	Unit
Repetitive peak reverse voltage	V_{RRM}	400	V
Average rectified output current	I_O	10	A
Peak forward surge current (Non-repetitive 60Hz sine wave)	I_{FSM}	120	A
Junction temperature	T_J	150	°C
Storage temperature range	T_{stg}	-45 ~ 150	°C

Electrical Characteristics

[Tc=25°C]

Characteristic	Symbol	Test Condition	Min.	Typ.	Max.	Unit
Forward voltage	$V_F^{1)}$	Tc=25°C	-	-	1.4	V
		Tc=125°C			1.3	
Reverse current	$I_R^{1)}$	Tc=25°C	-	-	20	μA
		Tc=125°C			200	
Reverse recovery time	t_{rr}	$I_F=1\text{A}, di/dt=-100\text{A}/\mu\text{s}$	-	-	30	ns
Thermal resistance	R_{th}	Junction to case	-	-	3.0	°C/W

1) Pulse test : $t_p \leq 380 \mu\text{s}$, Duty cycle $\leq 2\%$

※ Recommend PCB solder land [Unit: mm]

