

Schottky Rectifier

Applications

- Switching mode power supply
- Converter & chopper

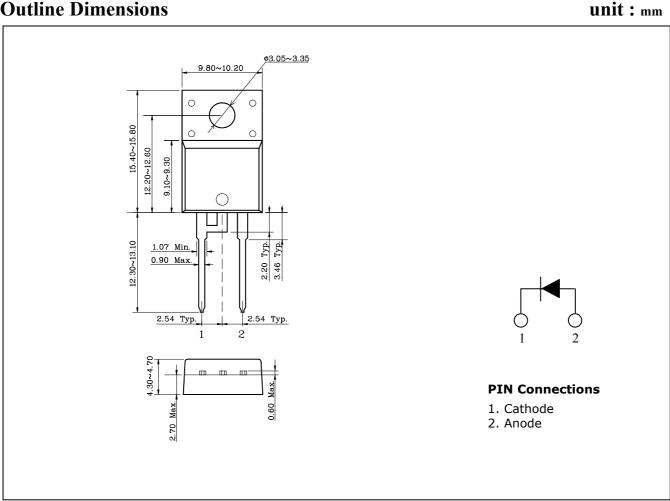
Features

- Low forward voltage: V_{FM}=0.55V Max. @ I_F=10A
- Low reverse current: I_{RRM} =2mA Max. @ V_{R} =40V
- Low switching loss

Ordering Information

Type No.	Marking	Package Code		
SDB1040PH	SDB1040PH	TO-220F-2L		

Outline Dimensions



Absolute Maximum Ratings

(Ta=25°C)

Characteristic	Symbol	Rating	Unit
Repetitive peak reverse voltage	V_{RRM}	40	V
Average rectified output current	I_{O}	10	Α
Peak surge forward current (Non-repetitive 60Hz sine wave)	I_{FSM}	120	А
Junction temperature	T _J	150	°C
Storage temperature range	T_{stg}	-55 ~ 150	°C

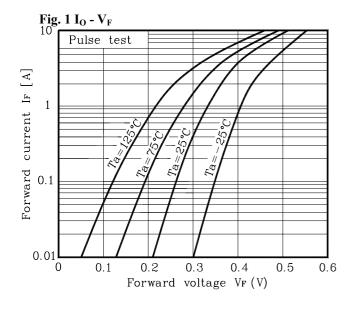
Electrical Characteristics

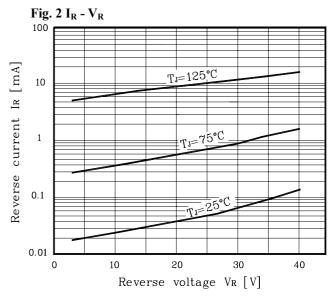
(Ta=25°C)

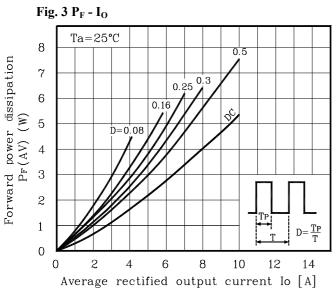
Characteristic	Symbol	Test Condition	Min.	Тур.	Max.	Unit
Peak forward voltage	V_{FM}	I _F =10A ¹⁾	-	-	0.55	V
Repetitive peak reverse current	I_{RRM}	V _R =40V	-	-	2	mA
Total capacitance	C _T	V _R =10V, f=1.0MHz	-	600	-	pF
Thermal resistance	R _{th}	Junction to ambient	-	1	62.5	· °C/W
		Junction to case	-	1	3.5	

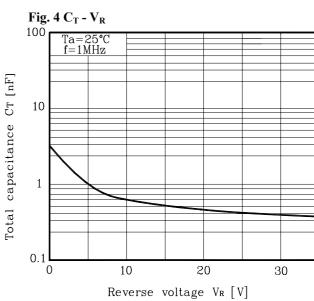
¹⁾ Pulse test : $t_P \le 380 \,\mu$ s, Duty cycle $\le 2\%$

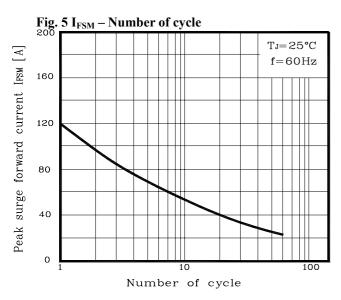
Electrical Characteristic Curves

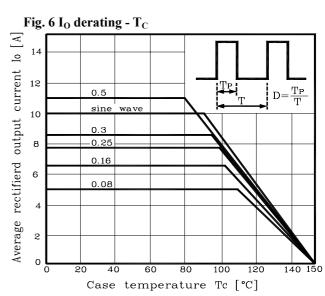












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