

Schottky Rectifier

Applications

- Switching mode power supply
- Converter & chopper

Features

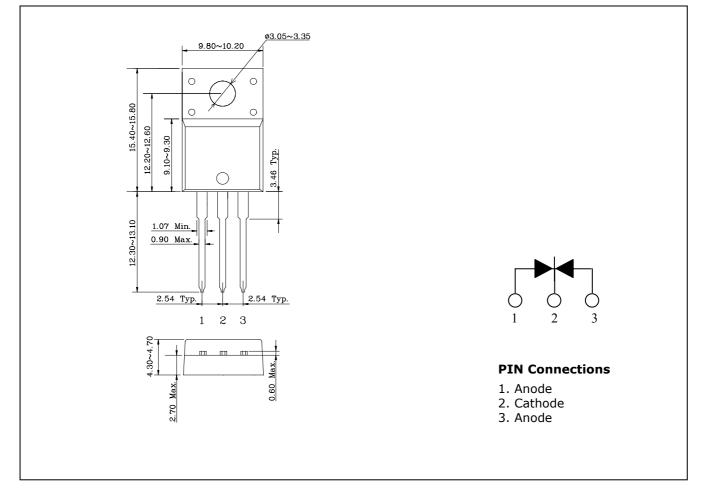
- Low forward voltage: V_{FM} =0.55V Max.
- Low reverse current: I_{RRM} =2mA Max.
- Low switching loss

Ordering Information

Type No.	Marking	Package Code		
SDB2040PI	SDB2040PI	TO-220F-3L		

Outline Dimensions

unit : mm



Absolute Maximum Ratings

Absolute Maximum Ratings			(Ta=25°C)	
Characteristic	Symbol	Rating	Unit	
Repetitive peak reverse voltage	V _{RRM}	40	V	
Average rectified output current	I _O	20	А	
Peak surge forward current (Non-repetitive 60Hz sine wave)	I _{FSM}	120	А	
Junction temperature	Tյ	150	°C	
Storage temperature range	T _{stg}	-55 ~ 150	°C	

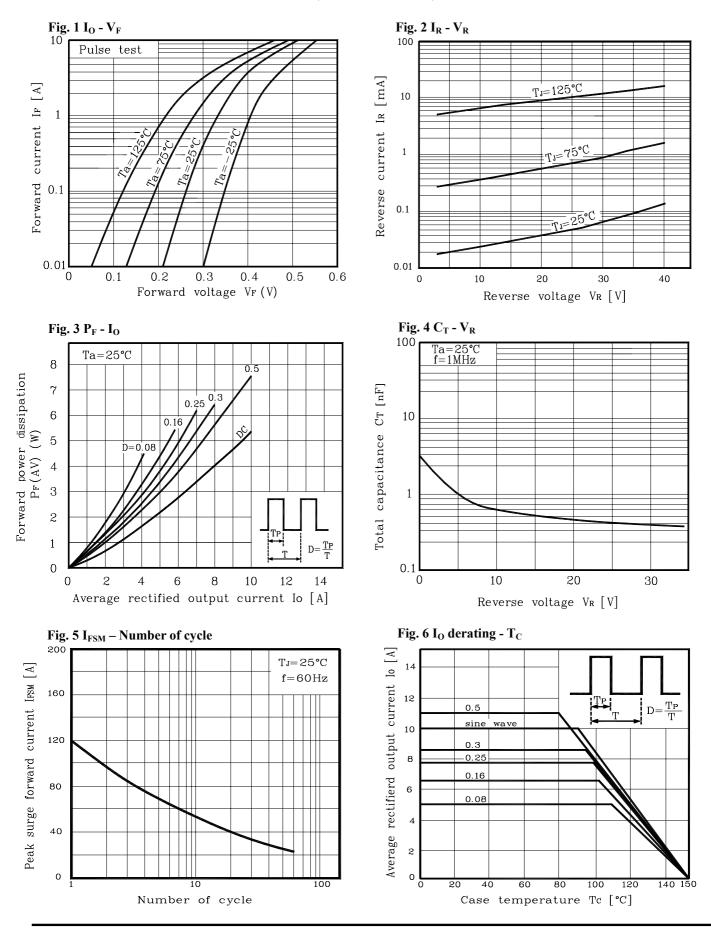
Electrical Characteristics

(Ta=25°C)

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Characteristic	Symbol	Test Condition	Min.	Тур.	Max.	Unit
Peak forward voltage	V_{FM} ¹⁾	$I_{FM}=5A^{2}$	-	-	0.55	V
Repetitive peak reverse current	I _{RRM} 1)	V _{RRM} =60V ²⁾	-	-	2	mA
Total capacitance	C _T ¹⁾	V_R =10V, f=1.0MHz	-	600	-	pF
Thermal resistance	R _{th}	Junction to ambient	-	-	62.5	°C/W
		Junction to case	-	-	3.5	

1) Per each unit

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



Electrical Characteristic Curves (Per each unit)

KSD-D00002-000

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