

Schottky Rectifier

Applications

- Switching mode power supply
- Converter & chopper

Features

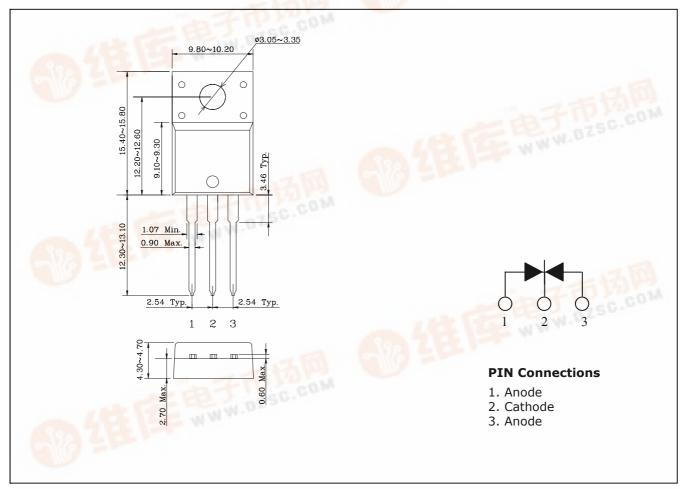
- Low forward voltage: V_{FM}=0.55V Max.
- Low reverse current: I_{RRM}=2mA Max. WWW.DZSC.COM
- Low switching loss

Ordering Information

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

Outline Dimensions

unit: mm





KSD-D0O002-000

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	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

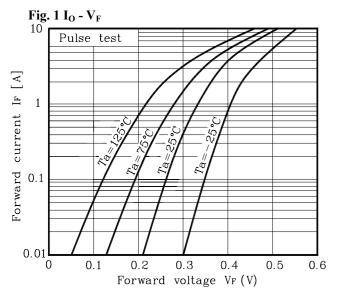
(Ta=25°C)

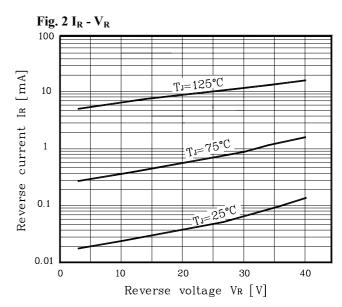
Characteristic	Symbol	Test Condition	Min.	Тур.	Max.	Unit
Peak forward voltage	V _{FM} ¹⁾	I _{FM} =5A ²⁾	-	-	0.55	V
Repetitive peak reverse current	I _{RRM} 1)	V _{RRM} =60V ²⁾	-	-	2	mA
Total capacitance	C _T 1)	V _R =10V, f=1.0MHz	-	600	1	pF
Thermal resistance	R _{th}	Junction to ambient	-	1	62.5	· °C/W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

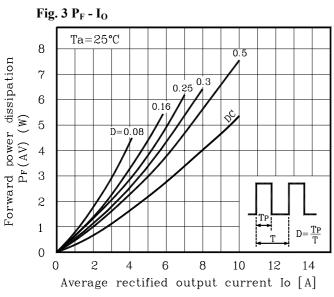
¹⁾ Per each unit

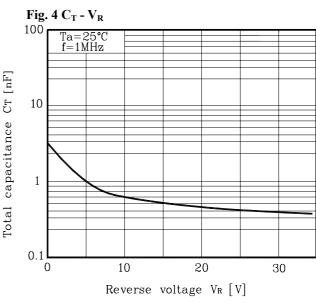
²⁾ Pulse test : $t_P \le 380 \,\mu\text{s}$, Duty cycle $\le 2\%$

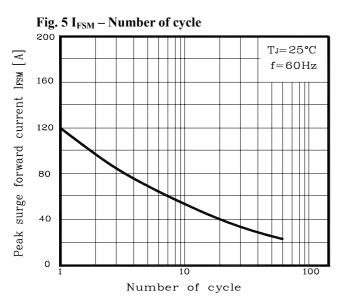
Electrical Characteristic Curves (Per each unit)

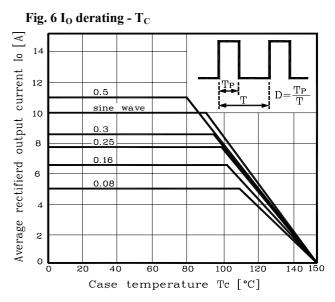












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