

Schottky barrier diode

Applications

- Switching mode power supply application
- Converter & chopper application

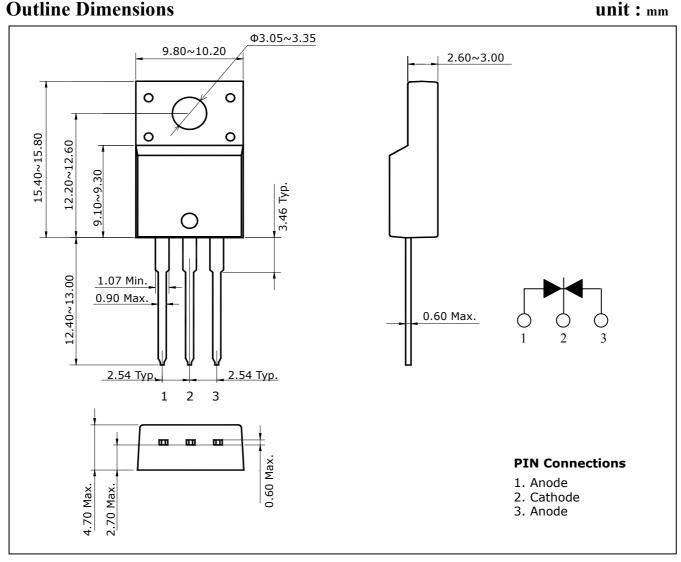
Features

- Low forward voltage: V_{FM}=0.55V Max.
- Low reverse current: I_{RRM}=0.5mA Max.
- Low switching loss

Ordering Information

Type No.	Marking	Package Code		
SDB1040PI	SDB1040PI	TO-220F-3L		

Outline Dimensions



KSD-D0O001-000

Absolute Maximum Ratings

Ta=25°C

Characteristic	Symbol	Rating	Unit
Repetitive peak reverse voltage	V_{RRM}	40	V
Average rectified output current	I _O	10	Α
Peak surge forward current (Non-repetitive 60Hz sine wave)	I_{FSM}	60	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} =40V	-	1	0.5	mA
Junction capacitance	C ₁	V _R =10V, f=1.0MHz	-	200	-	pF
Thermal resistance	$R_{th(j-c)}$	Junction to ambient	-	1	62.5	· °C/W
		Junction to case	-	-	4.0	

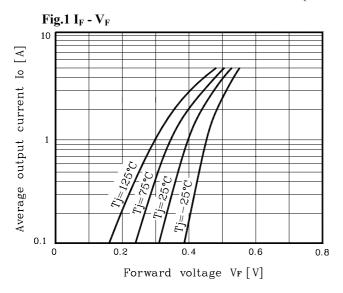
¹⁾ per each chip

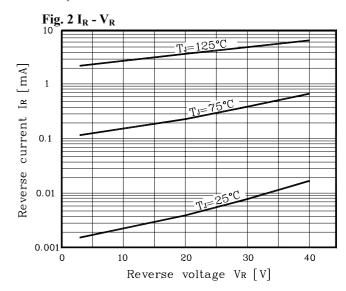
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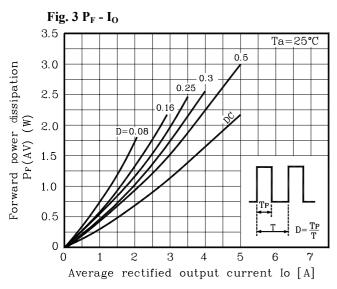
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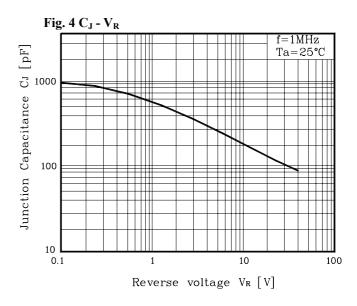
²⁾ Pulse test : $t_P \le 380 \,\mu\text{s}$, Duty cycle $\le 2\%$

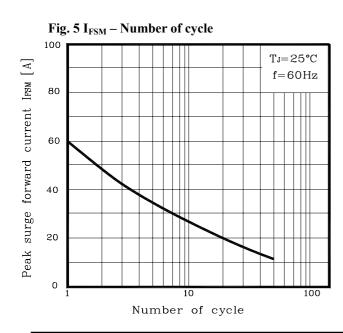
Electrical Characteristic Curves (Per each cell)

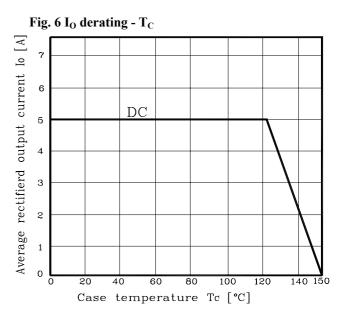












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