

Schottky barrier diode

Applications

- Switching mode power supply application
- Converter & chopper application

Features

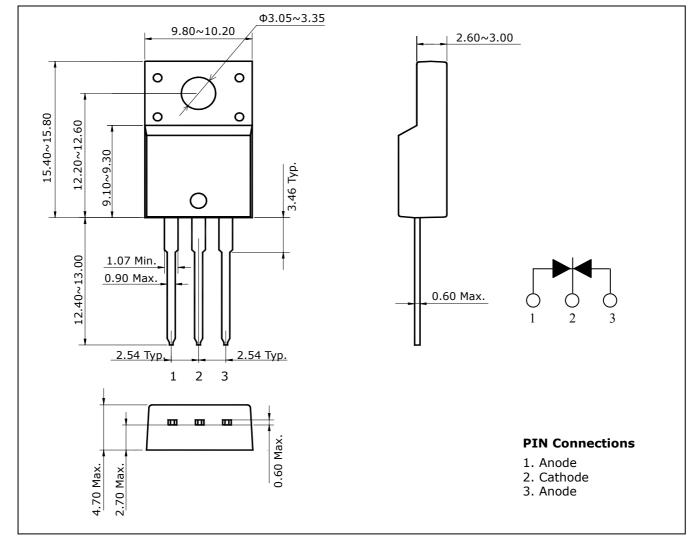
- Low forward voltage: V_{FM} =0.55V Max.
- Low reverse current: I_{RRM} =0.5mA Max.
- Low switching loss

Ordering Information

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

Outline Dimensions

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	Ι _Ο	10	А	
Peak surge forward current (Non-repetitive 60Hz sine wave)	I _{FSM}	60	А	
Junction temperature	Tյ	150	°C	
Storage temperature range	T _{stg}	-55 ~ 150	°C	

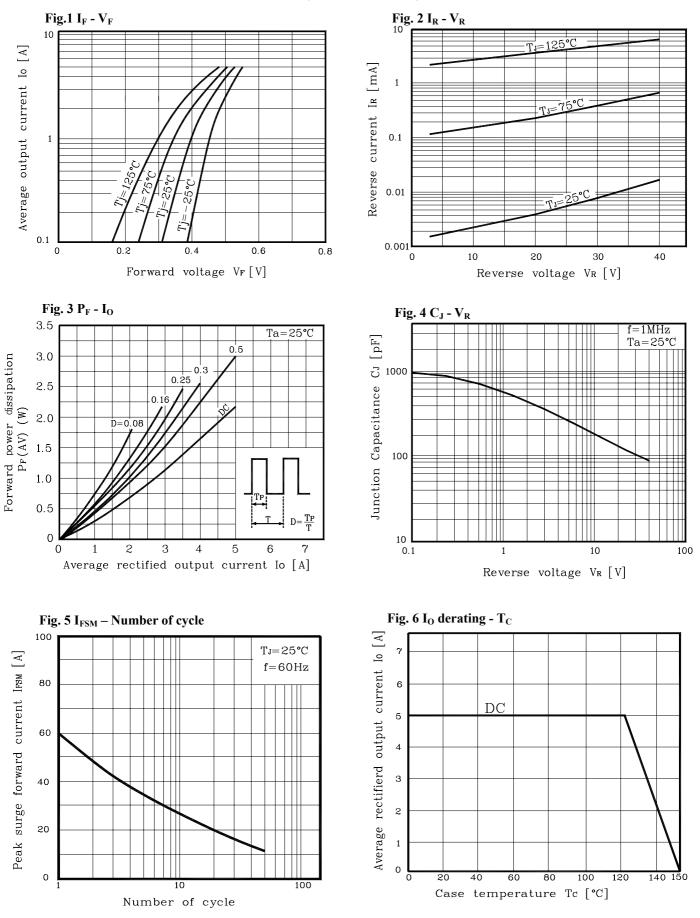
Electrical Characteristics

Ta=25°C

				1a-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	-	-	0.5	mA
Junction capacitance	CJ	V _R =10V, f=1.0MHz	-	200	-	pF
Thermal resistance	$R_{th(j-c)}$	Junction to ambient	-	-	62.5	°C/W
		Junction to case	-	-	4.0	

1) per each chip

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



Electrical Characteristic Curves (Per each cell)

KSD-D00001-000

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