

SDB10100PI

High Voltage Schottky Rectifier

unit: mm

Applications

- High speed switching and rectification
- Switching mode power supply

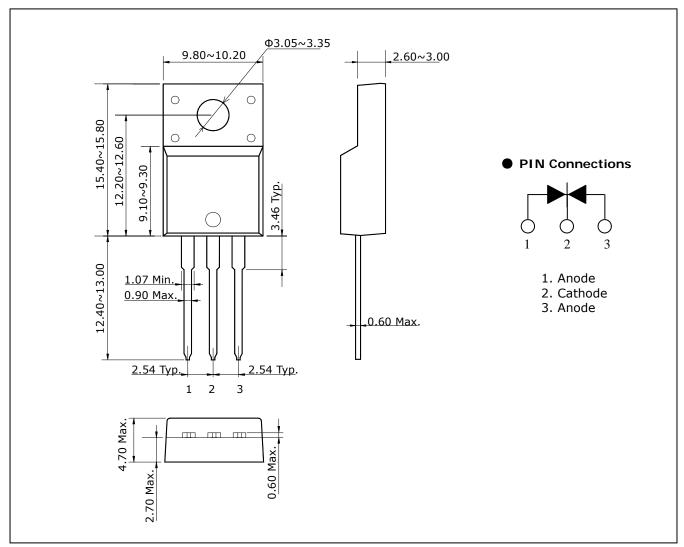
Features

- Dual chip common cathode
- Low forward voltage & low reverse current
- Low switching loss

Ordering Information

Type No.	Marking	Package Code	
SDB10100PI	SDB10100PI	TO-220F-3L	

Outline Dimensions



KSD-D0O005-001

SDB10100PI

Absolute Maximum Ratings

 $[T_C=25^{\circ}C]$

Characteristic	Symbol	Rating	Unit
Repetitive peak reverse voltage	V_{RRM}	100	V
Average rectified output current	I _O	10	А
Peak forward surge current (Non-repetitive 60Hz sine wave)	I_{FSM}	120	А
Junction temperature	T _J	150	°C
Storage temperature range	T_{stg}	-45 ~ 150	°C

Electrical Characteristics

 $[T_C=25^{\circ}C]$

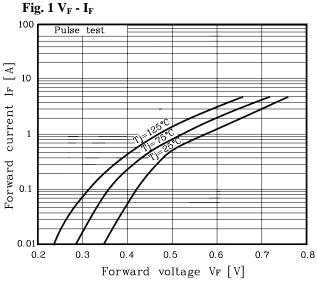
Characteristic	Symbol	Test Condition	Min.	Тур.	Max.	Unit
Peak forward voltage	V _{FM} ^{1), 2)}	I _F =5A	-	-	0.85	V
Repetitive peak reverse current	I _{RRM} 1), 2)	V _R =100V	-	-	10	μA
Thermal resistance	R _{th}	Junction to ambient	-	-	62.5	°C/W
		Junction to case	-	-	4.0	

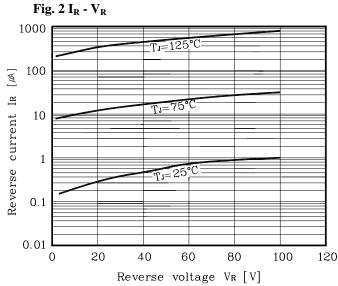
¹⁾ per each unit

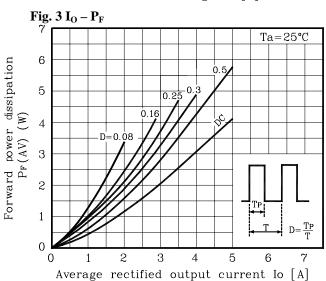
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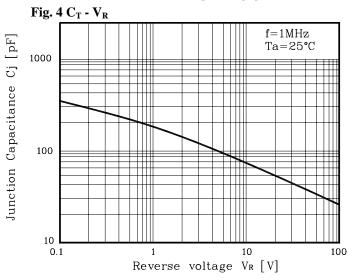
²⁾ Pulse test : $t_P \le 380 \,\mu\text{s}$, Duty cycle $\le 2\%$

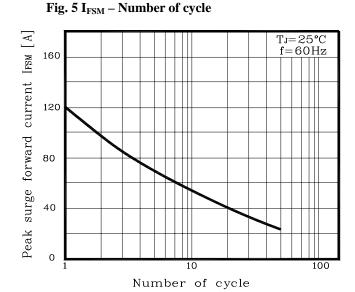
Electrical Characteristic Curves [per each unit]

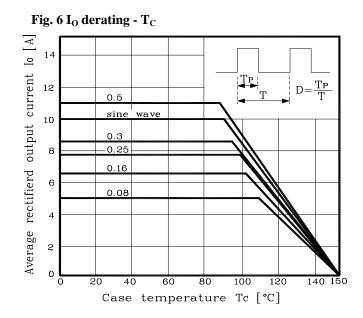












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