



SDB10100PI

High Voltage Schottky Rectifier

Applications

- High speed switching and rectification
- Switching mode power supply

Features

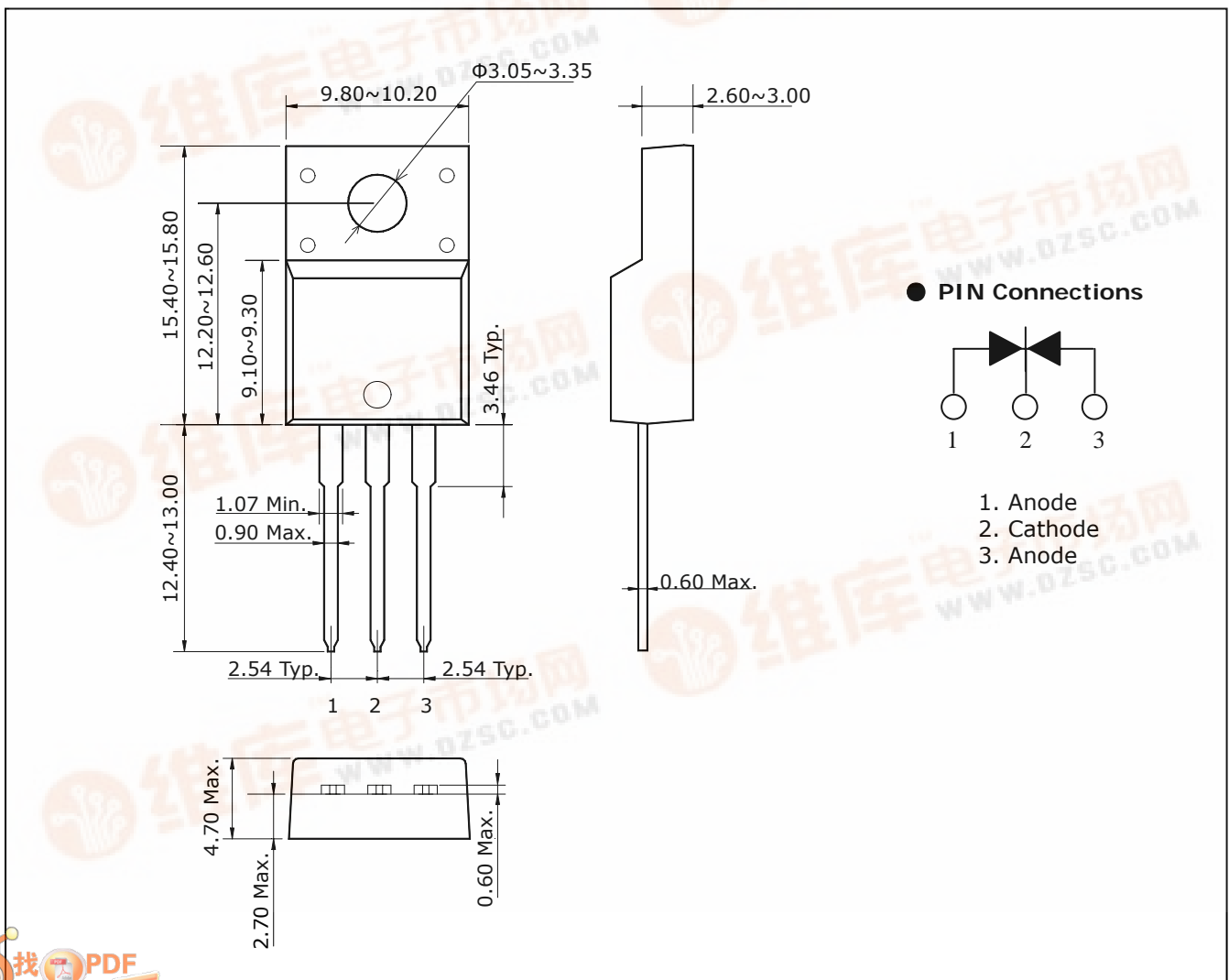
- Dual chip common cathode
- Low forward voltage & low reverse current
- Low switching loss

Ordering Information

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

Outline Dimensions

unit : mm



SDB10100PI

Absolute Maximum Ratings

[T_C=25°C]

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

Electrical Characteristics

[T_C=25°C]

Characteristic	Symbol	Test Condition	Min.	Typ.	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

2) Pulse test : t_p ≤ 380 μs, Duty cycle ≤ 2%

Electrical Characteristic Curves [per each unit]

Fig. 1 $V_F - I_F$

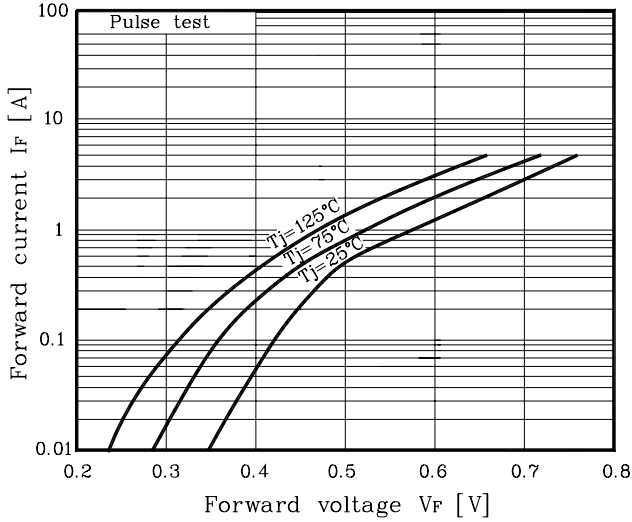


Fig. 2 $I_R - V_R$

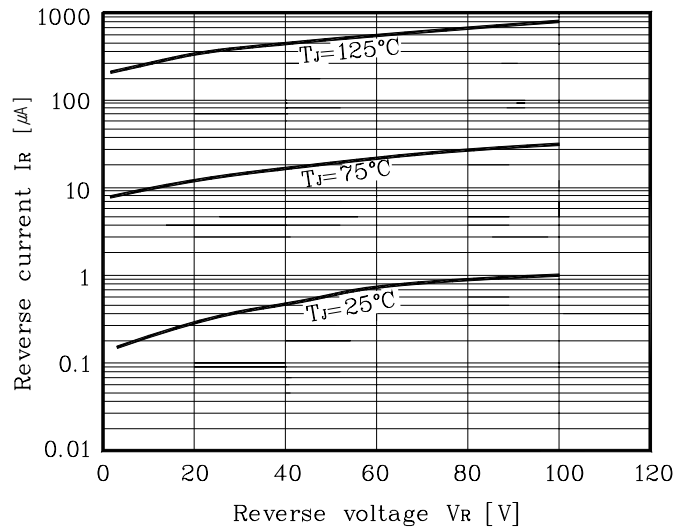


Fig. 3 $I_O - P_F$

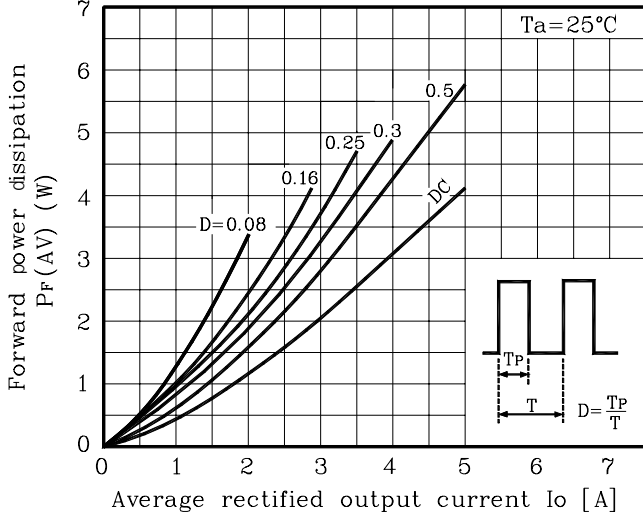


Fig. 4 $C_T - V_R$

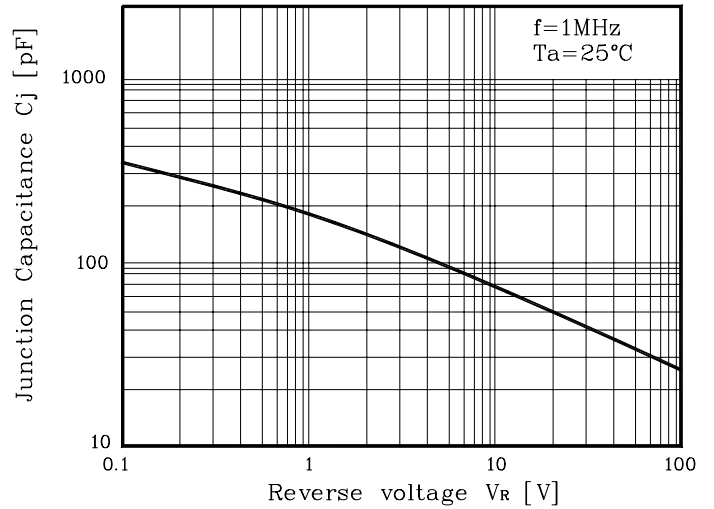


Fig. 5 $I_{FSM} - \text{Number of cycle}$

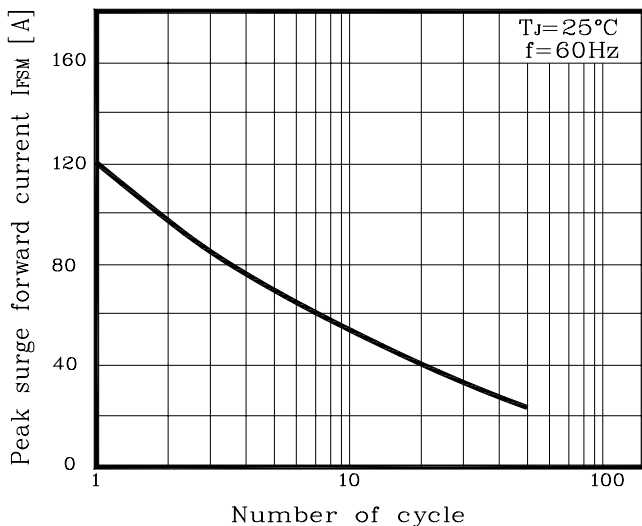
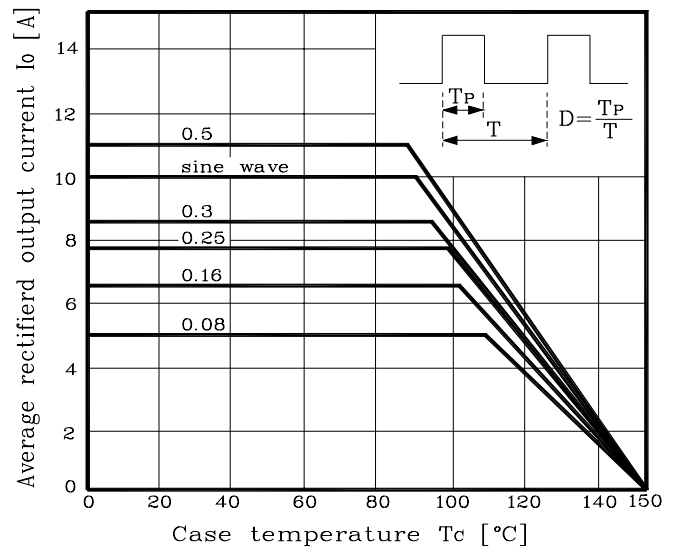


Fig. 6 I_O derating - T_C



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