AUK Semiconductor

SDB1060PI

Schottky Rectifier

Applications

- Switching mode power supply
- Converter & chopper

Features

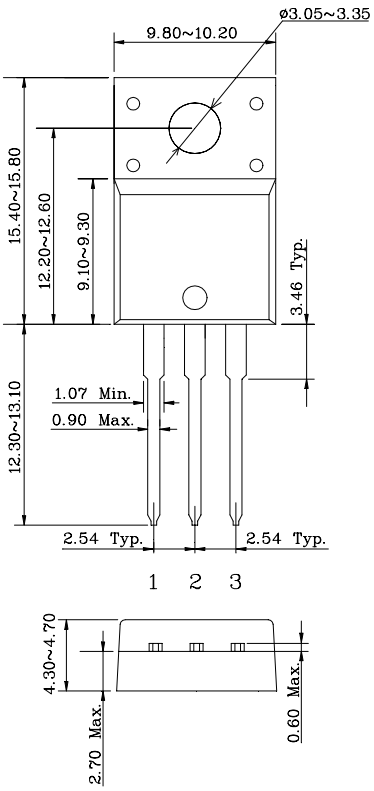
- Low forward voltage: V_{FM}=0.65V Max.
- Low reverse current: I_{RRM}=0.5mA Max.
- Low switching loss

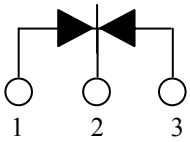
Ordering Information

Type No.	Marking	Package Code
SDB1060PI	SDB1060PI	TO-220F-3L

Outline Dimensions

unit : mm





PIN Connections

1. Anode
2. Cathode
3. Anode

Absolute Maximum Ratings

(Ta=25°C)

Characteristic	Symbol	Rating	Unit
Repetitive peak reverse voltage	V_{RRM}	60	V
Average rectified output current	I_O	10	A
Peak surge forward current (Non-repetitive 60Hz sine wave)	I_{FSM}	60	A
Junction temperature	T_J	150	°C
Storage temperature range	T_{stg}	-55 ~ 150	°C

Electrical Characteristics

(Ta=25°C)

Characteristic	Symbol	Test Condition	Min.	Typ.	Max.	Unit
Peak forward voltage	V_{FM} 1)	I_{FM}=5A 2)	-	-	0.65	V
Repetitive peak reverse current	I_{RRM} 1)	V_{RRM}=60V 2)	-	-	0.5	mA
Total capacitance	C_T 1)	V_R=10V, f=1.0MHz	-	160	-	pF
Thermal resistance	R_{th}	Junction to ambient	-	-	62.5	°C/W
		Junction to case	-	-	4	

1) Per each unit

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

Electrical Characteristic Curves (per each unit)

Fig. 1 I_O - V_F

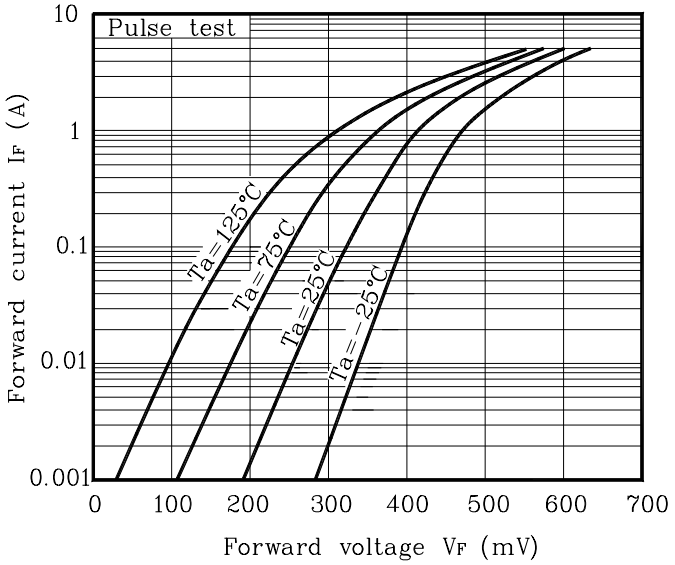


Fig. 2 I_R - V_R

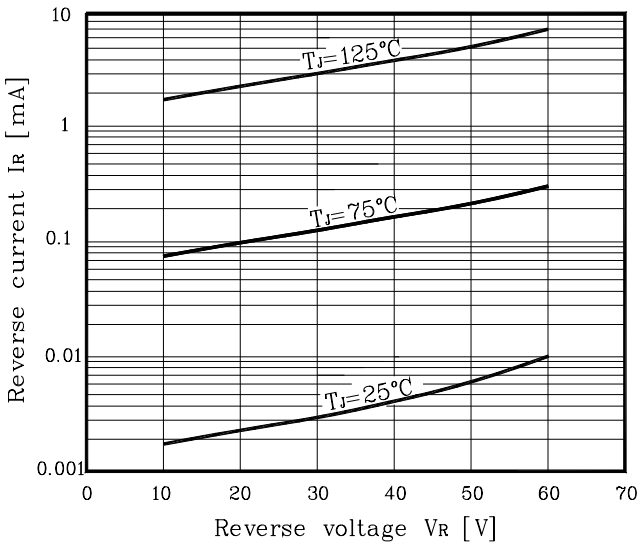


Fig. 3 P_F - I_O

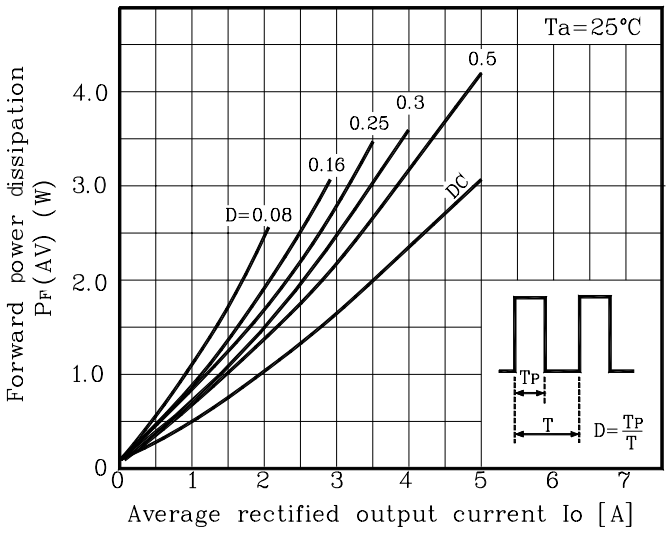


Fig. 4 C_T - V_R

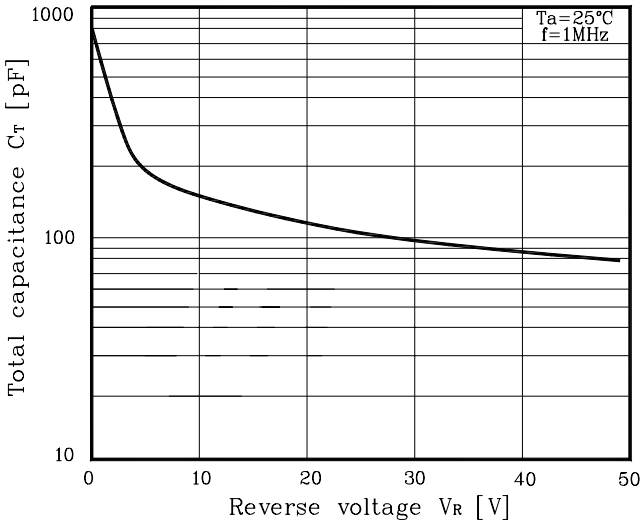


Fig. 5 I_{FSM} – Number of cycle

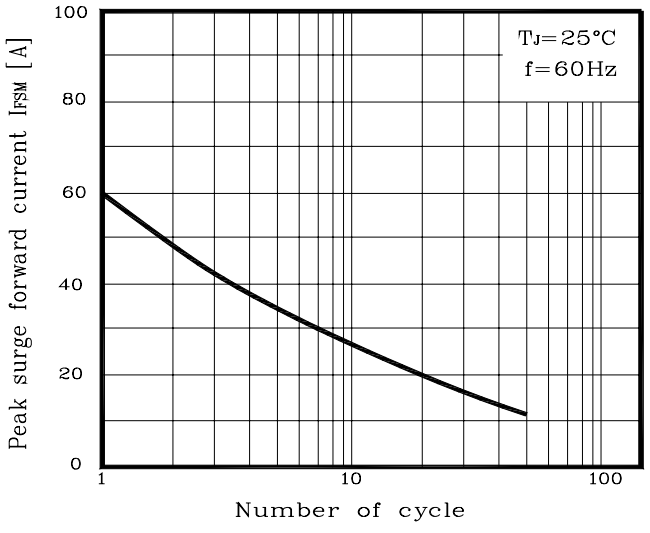
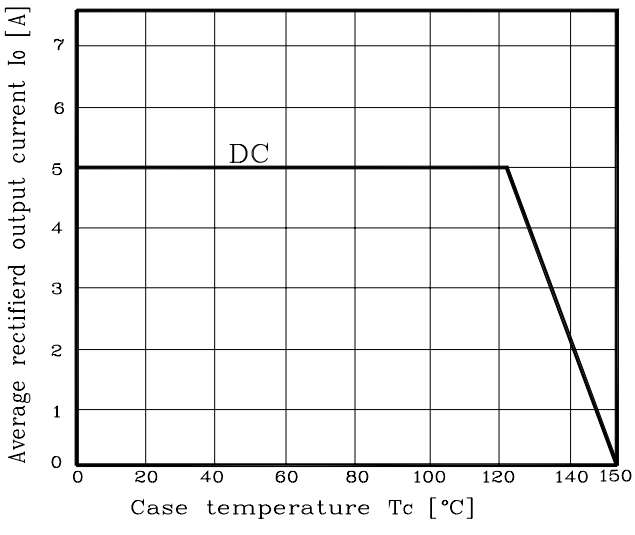


Fig. 6 I_O derating - T_C



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