AUK Semiconductor

SDB2060PI

Schottky Rectifier

Applications

- Switching mode power supply application
- Converter & chopper application

Features

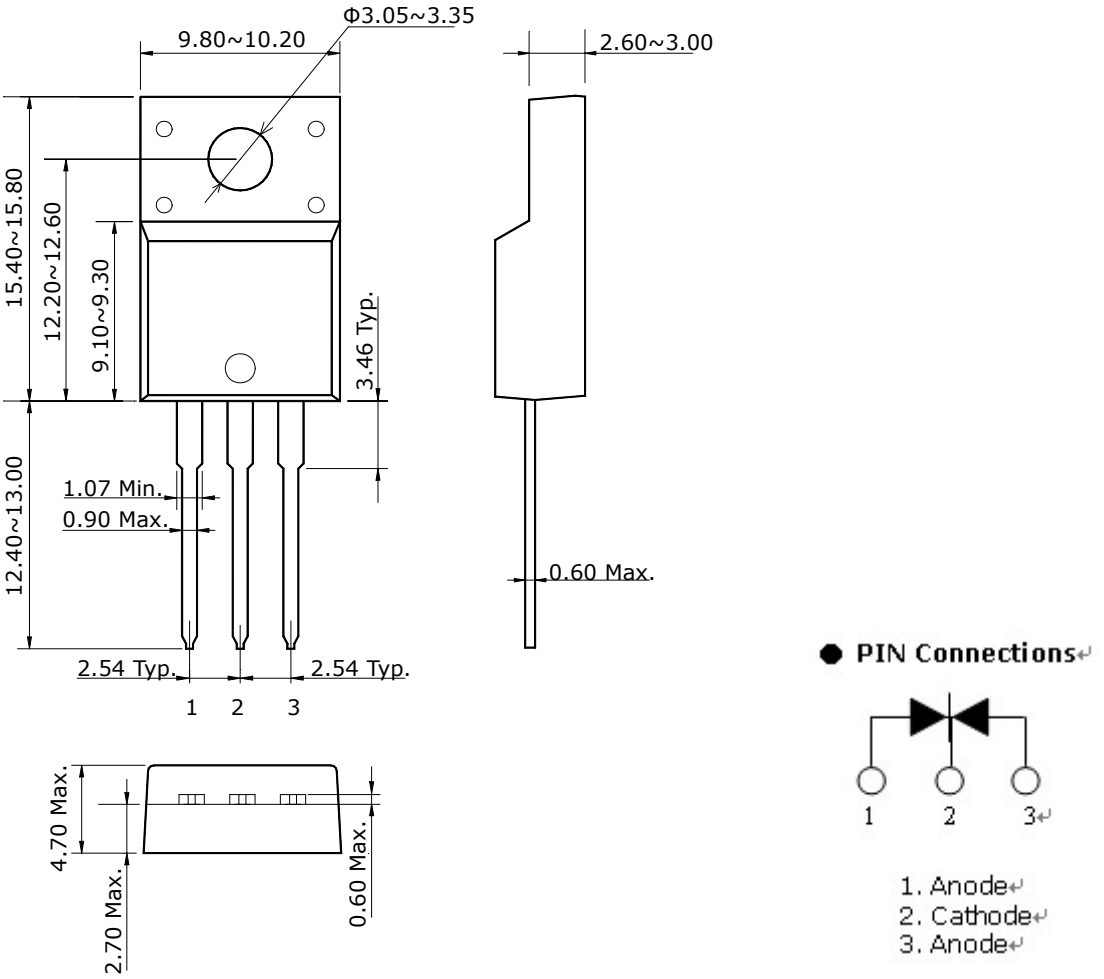
- Low forward voltage: V_{FM}=0.65V max.
- Low reverse current: I_{RRM}=1.5mA max. @ V_R=60V
- Low switching loss

Ordering Information

Type No.	Marking	Package Code
SDB2060PI	SDB2060PI	TO-220F-3L

Outline Dimensions

unit : mm



Absolute Maximum Ratings (Ta=25°C)

Characteristic	Symbol	Rating	Unit
Repetitive peak reverse voltage	V_{RRM}	60	V
Average rectified output current	I_O	20	A
Peak surge forward current (Non-repetitive 60Hz sine wave)	I_{FSM}	120	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), 2)	I_F=10A	-	0.61	0.65	V
Repetitive peak reverse current	I_{RRM} 1)	V_R=60V	-	-	1.5	mA
Total capacitance	C_T 1)	V_R=10V, f=1.0MHz	-	400	-	pF
Thermal resistance	R_{th}	Junction to ambient	-	-	62.5	°C/W
		Junction to case	-	-	4.0	

1) Per each unit

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

Electrical Characteristic Curves

Fig. 1 I_O - V_F

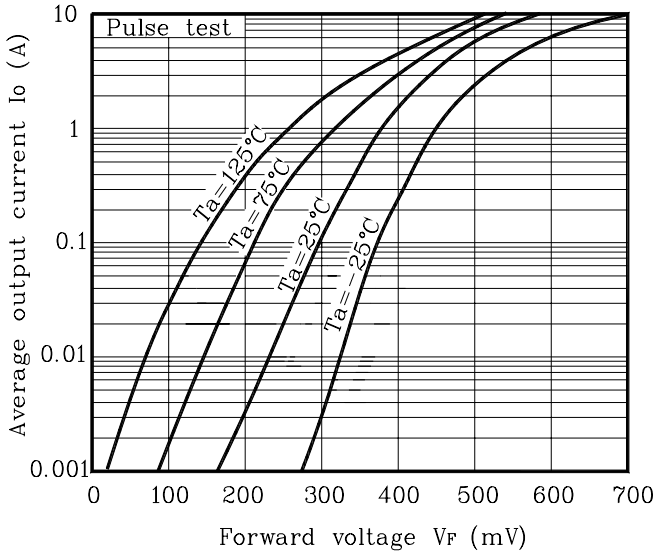


Fig. 2 I_R - V_R

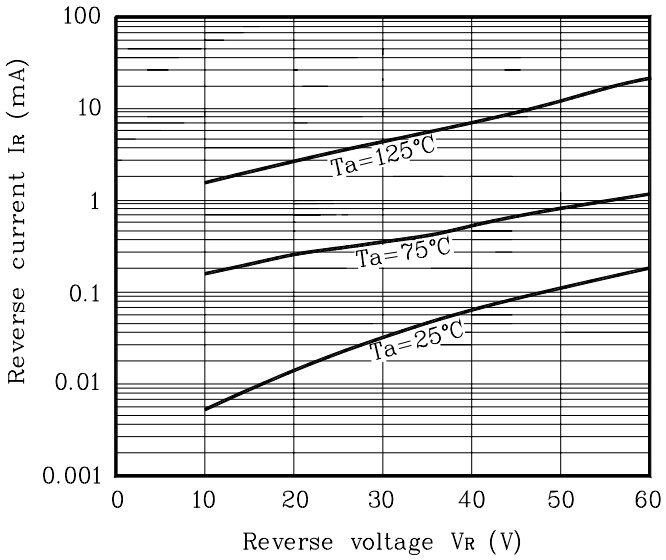
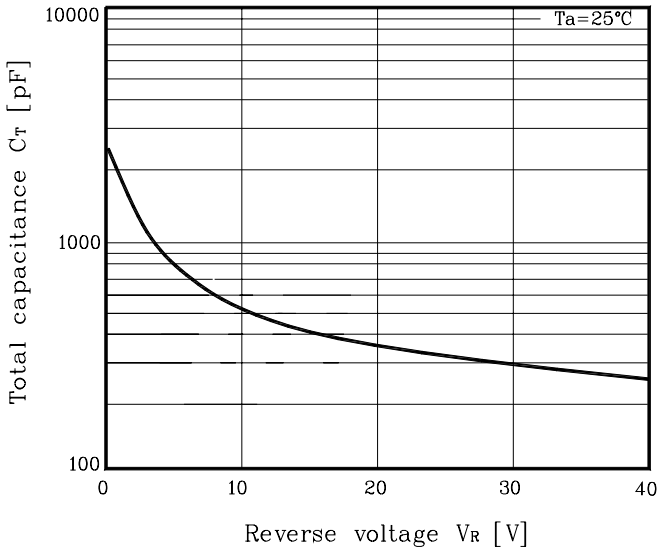


Fig. 3 C_T - V_R



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