

## Applications

- Switching mode power supply application
- Converter & chopper application

## Features

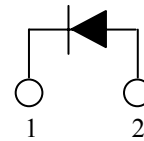
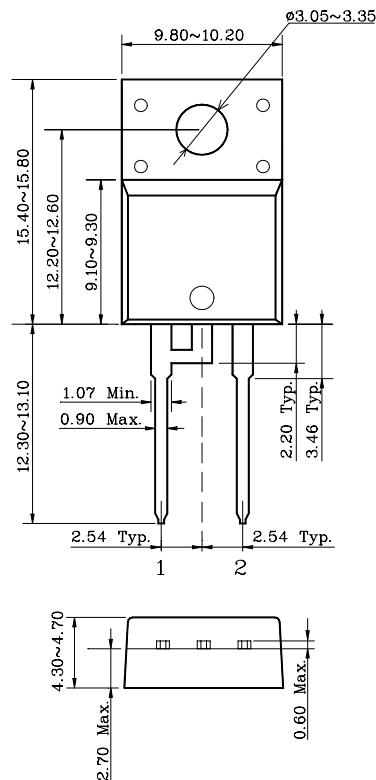
- Low forward voltage:  $V_{FM}=0.65V$  Max. @  $I_F=5A$
- Low reverse current:  $I_{RRM}=0.5mA$  Max. @  $V_R=60V$
- Low switching loss

## Ordering Information

Type No.	Marking	Package Code
SDB560	SDB560	TO-220F-2L

## Outline Dimensions

unit : mm



### PIN Connections

1. Cathode
2. Anode

**Absolute Maximum Ratings**

(Ta=25°C)

Characteristic	Symbol	Rating	Unit
Repetitive peak reverse voltage	$V_{RRM}$	60	V
Average rectified output current	$I_O$	5	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

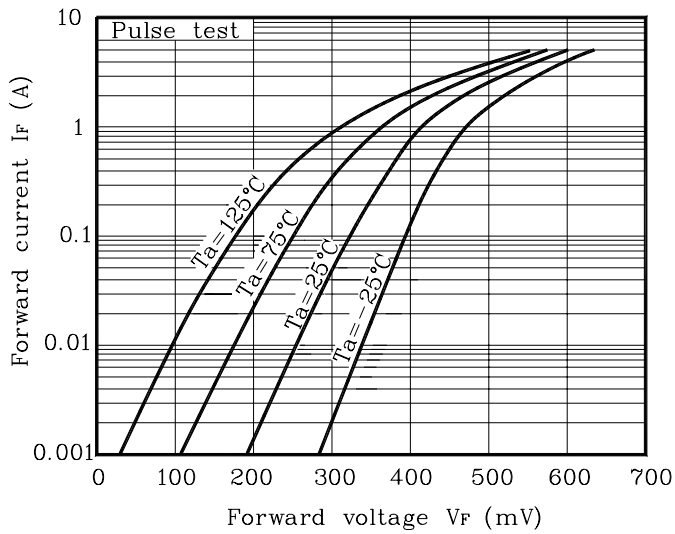
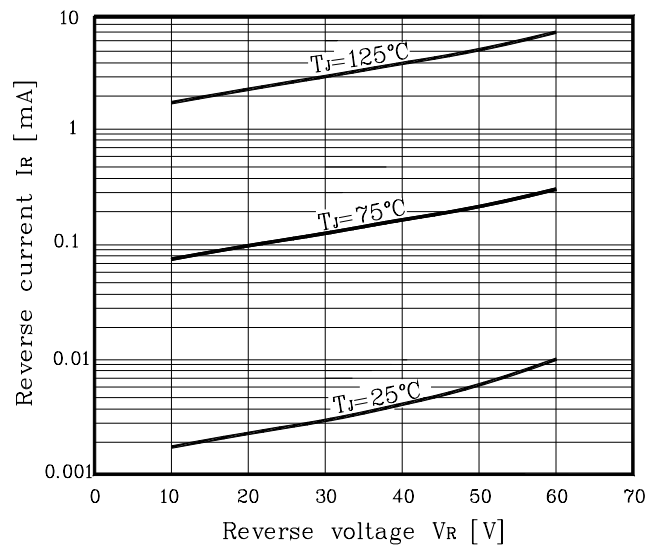
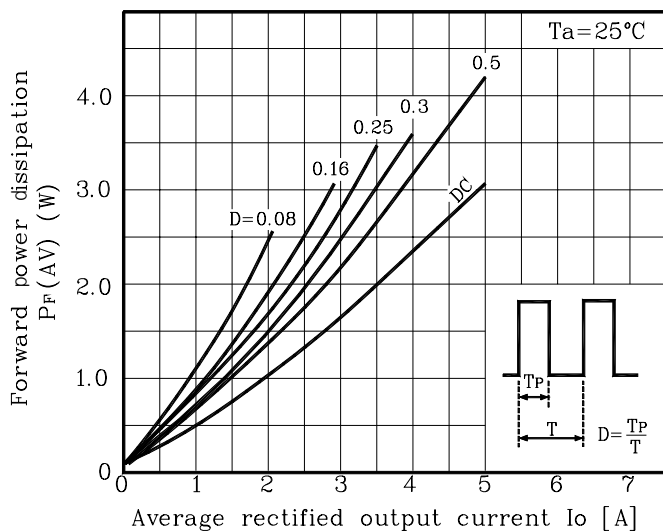
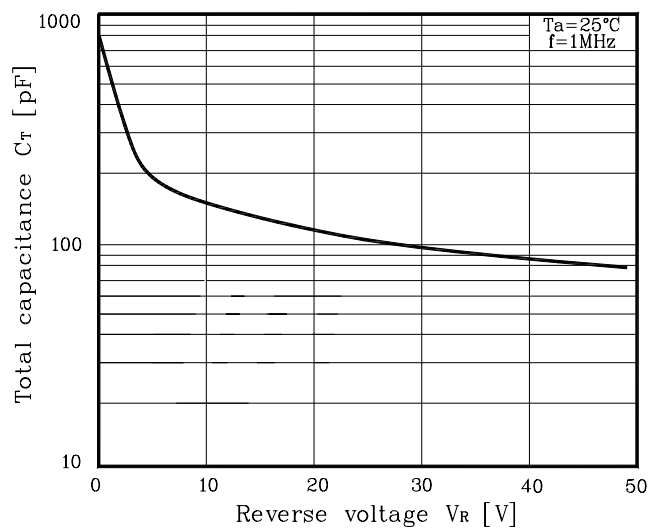
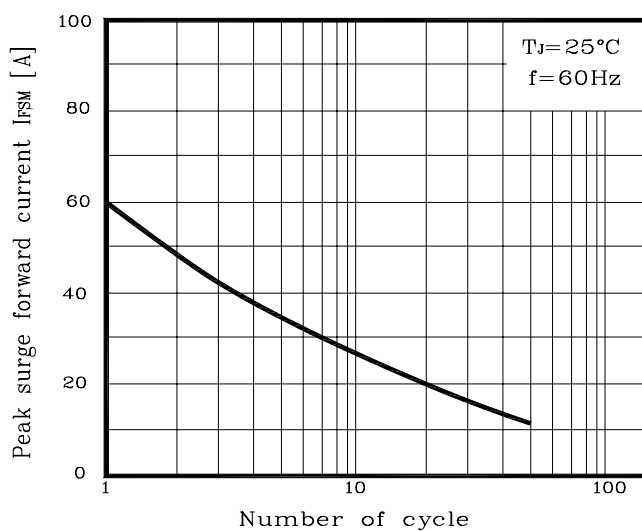
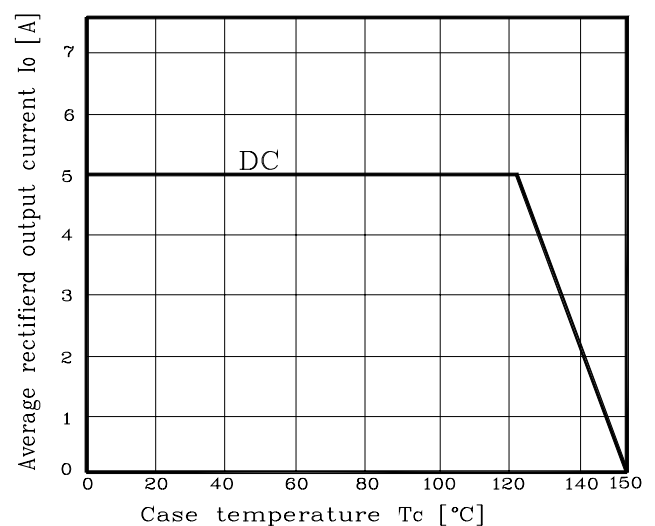
**Electrical Characteristics**

(Ta=25°C)

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

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

## Electrical Characteristic Curves

Fig. 1  $I_F - V_F$ Fig. 2  $I_R - V_R$ Fig. 3  $P_F - I_O$ Fig. 4  $C_T - V_R$ Fig. 5  $I_{FSM} - \text{Number of cycle}$ Fig. 6  $I_O \text{ derating} - T_C$ 

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