

Applications

- Low voltage, high frequency inverters
- Free wheeling and polarity protection

Features

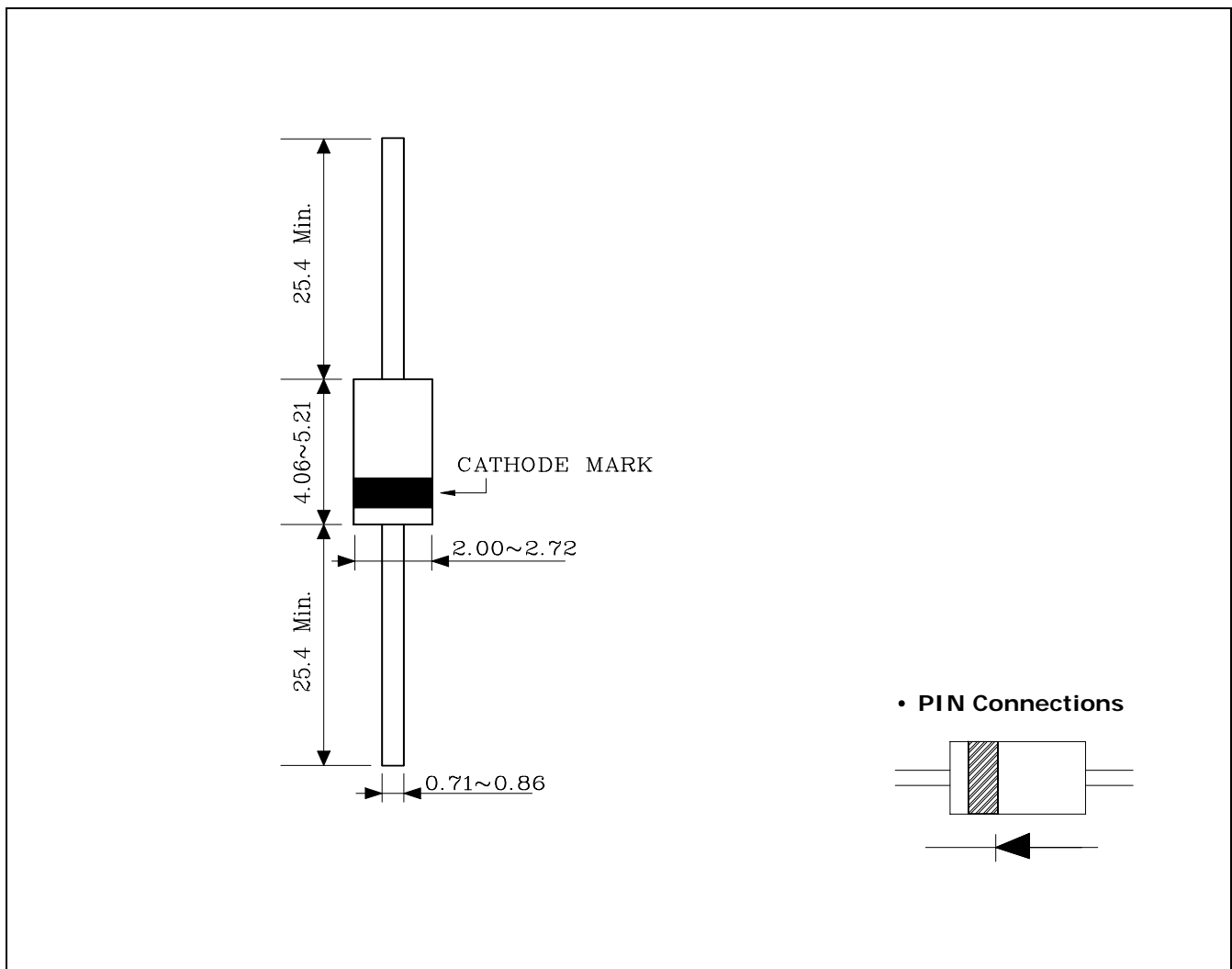
- Guardring for overvoltage protection
- Low forward voltage, Low reverse current: $V_{FM}=0.7V$ Max. $I_{RRM}=0.5mA$ Max.
- Low power loss and high efficiency

Ordering Information

Type No.	Marking	Package Code
SDB260R	SB260	DO-41

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	2	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	$V_{FM}^{1)}$	$I_F=2A$	-	-	0.7	V
Repetitive peak reverse current	I_{RRM}	$V_R=60V$	-	-	0.5	mA
Total capacitance	C_T	$V_R=4V, f=1.0MHz$	-	100	-	pF
Thermal resistance	$R_{th}^{2)}$	Junction to ambient	-	50		°C/W

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

2) Tested under junction to ambient at 0.375"(9.5mm)lead length, P.C.B. mounted

Electrical Characteristic Curves

Fig. 1 $I_O - V_F$

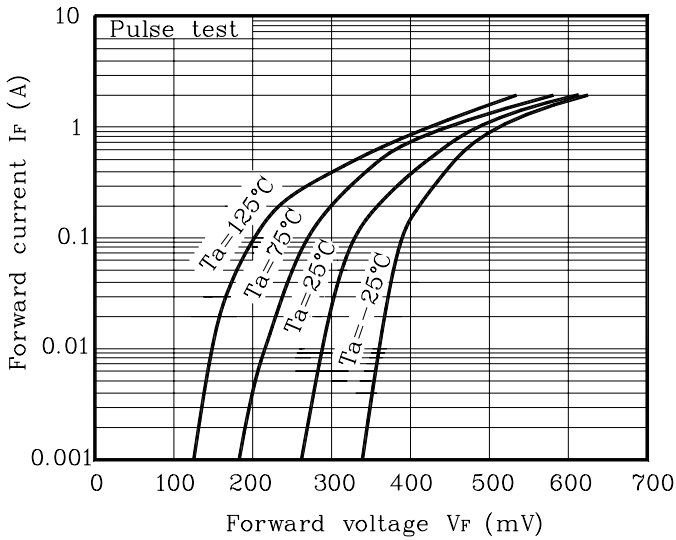


Fig. 2 $I_R - V_R$

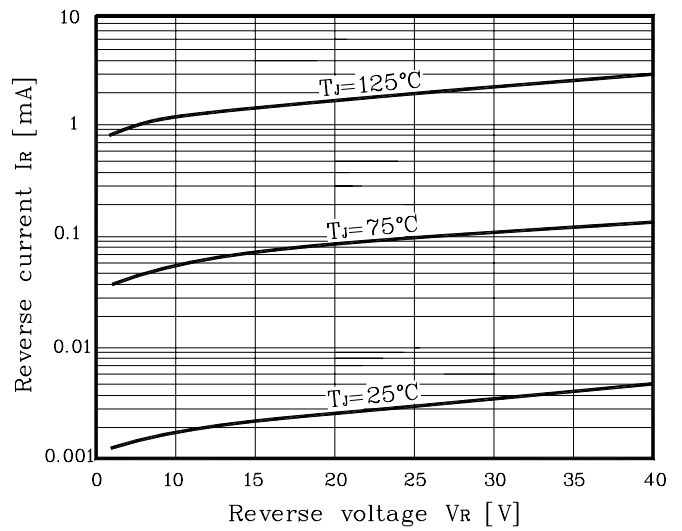


Fig. 3 $C_T - V_R$

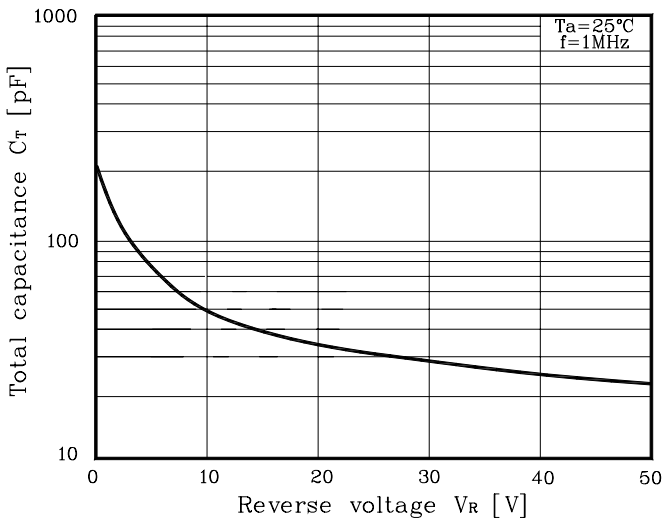
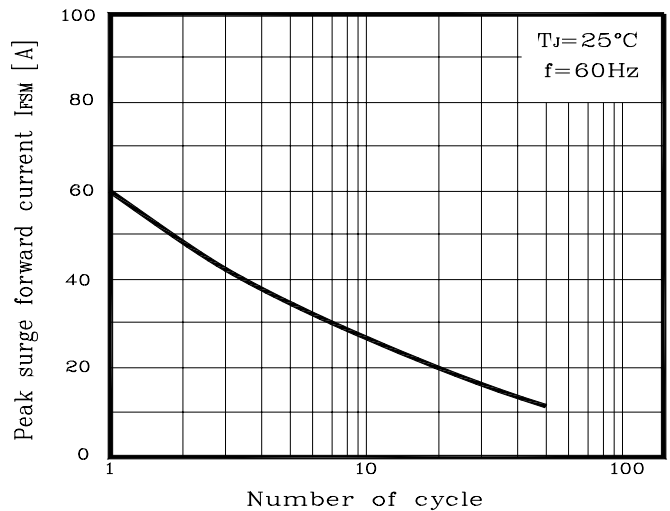


Fig. 4 $I_{FSM} - \text{Number of cycle}$



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