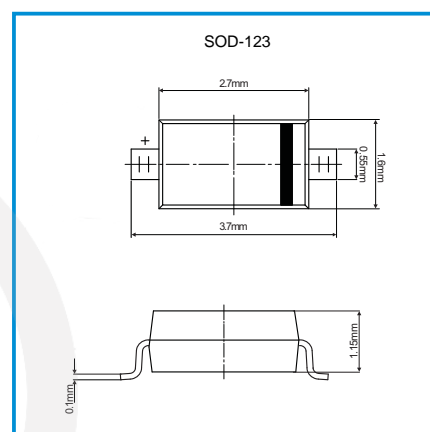


FEATURES

- Small Power Mold Type
- Low I_R
- High Reliability
- **MARKING: 76**

Functional Diagram

Dimensions


Maximum Ratings @ $T_a=25^\circ\text{C}$

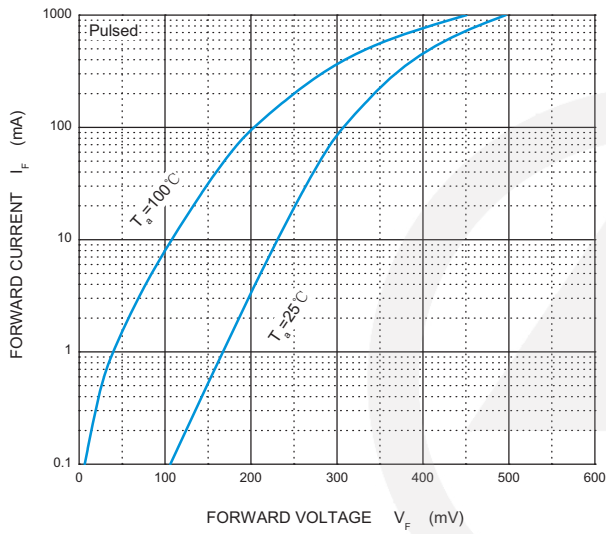
Parameter	Symbol	Limit	Unit
DC reverse voltage	V_R	60	V
Mean rectifying current	I_O	1	A
Peak forward surge current @ $t=8.3\text{ms}$	I_{FSM}	15	A
Power dissipation	P_D	350	mW
Thermal Resistance Junction to Ambient	$R_{\theta JA}$	286	$^\circ\text{C/W}$
Junction temperature	T_j	150	$^\circ\text{C}$
Storage temperature	T_{stg}	-55~+150	$^\circ\text{C}$

Electrical characteristics @ $T_a=25^\circ\text{C}$

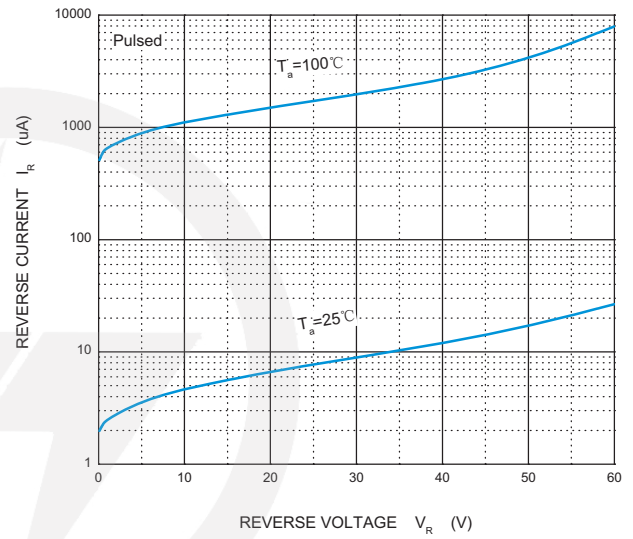
Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Forward voltage	V_F			0.56	V	$I_F=1\text{A}$
Reverse current	I_R			30	μA	$V_R=60\text{V}$

Typical Characteristics

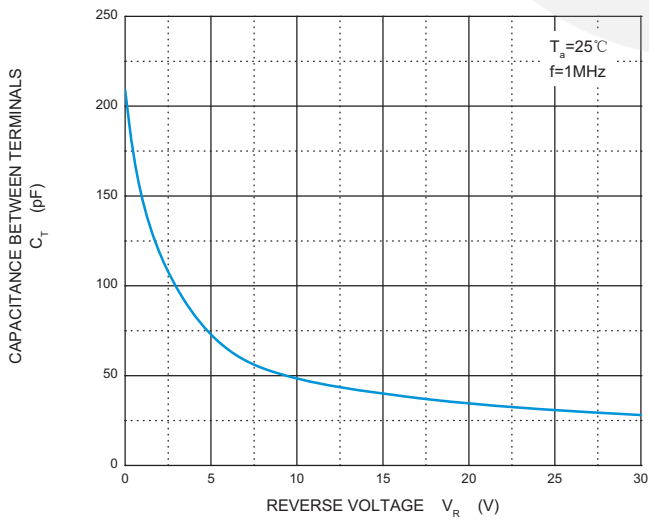
Forward Characteristics



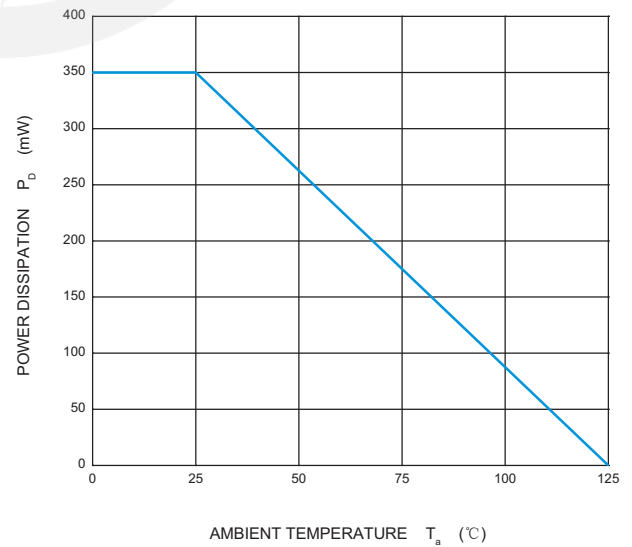
Reverse Characteristics

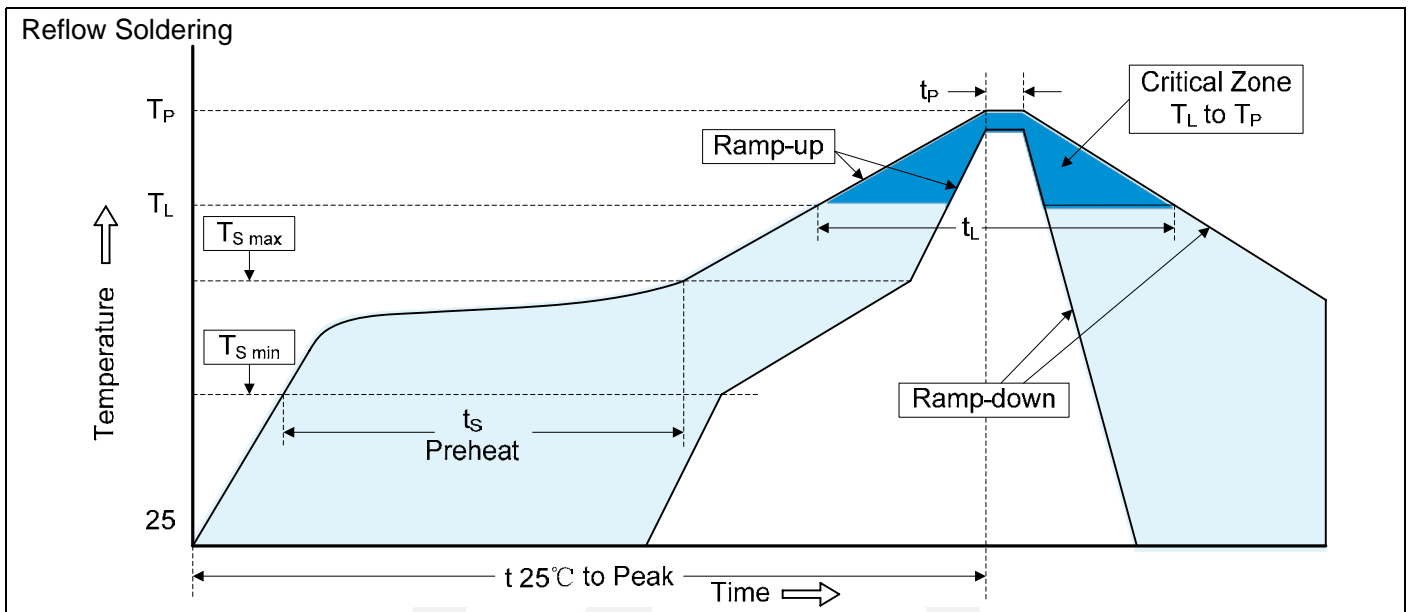


Capacitance Characteristics



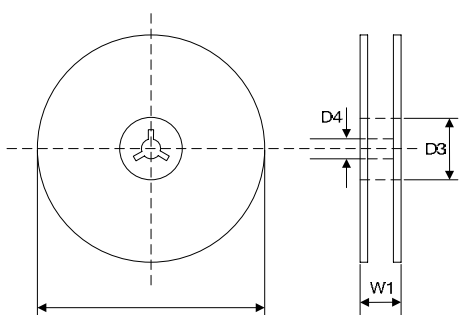
Power Derating Curve



Recommended Soldering Conditions

Recommended Conditions

Profile Feature	Pb-Free Assembly
Average ramp-up rate (T_L to T_P)	3°C/second max.
Preheat -Temperature Min ($T_{S\ min}$) -Temperature Max ($T_{S\ max}$) -Time (min to max) (t_s)	150°C 200°C 60-180 seconds
$T_{S\ max}$ to T_L -Ramp-up Rate	3°C/second max.
Time maintained above: -Temperature (T_L) -Time (t_L)	217°C 60-150 seconds
Peak Temperature (T_P)	260°C
Time within 5°C of actual Peak Temperature (t_P)	20-40 seconds
Ramp-down Rate	6°C/second max.
Time 25°C to Peak Temperature	8 minutes max.

Packaging

7" Reel		D2	$\Phi 178.0 \pm 2.0$
 <p>The diagram shows a top view of a 7-inch reel with diameter $\Phi 178.0 \pm 2.0$ and a side view showing dimensions $D2$, $D3$, $D4$, and $W1$.</p>		D3	$\Phi 50.0$ Min.
		D4	$\Phi 13.0 \pm 0.5$
		W1	16.0 ± 2.0
		Quantity: 3000PCS	