

V_{RM}	90	V
I_{FM}	225	mA
I_o	100	mA
I_{FSM}	500	mA

● Features

- High reliability
- Small mold type
- High Speed switching

● Application

- High speed switching

● Structure

- Epitaxial planar

● Absolute Maximum Ratings ($T_a = 25^\circ\text{C}$)

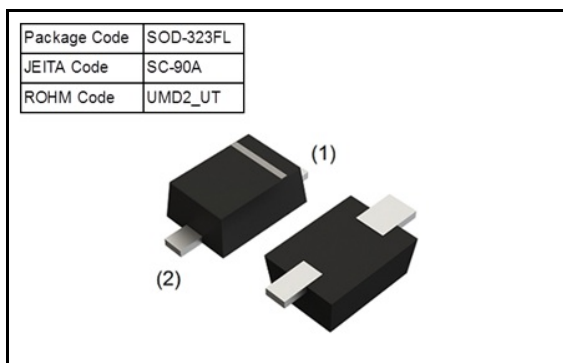
Parameter	Symbol	Conditions	Limits	Unit
Reverse voltage	V_R	-	80	V
Repetitive peak reverse voltage	V_{RM}	-	90	V
Average rectified forward current	I_o	-	100	mA
Forward current	I_{FM}	-	225	mA
Peak forward surge current	I_{FSM}	$t=1\text{s}$	500	mA
Junction temperature	T_j	-	150	$^\circ\text{C}$
Storage temperature	T_{stg}	-	-55 ~ 150	$^\circ\text{C}$

● Characteristics ($T_a = 25^\circ\text{C}$)

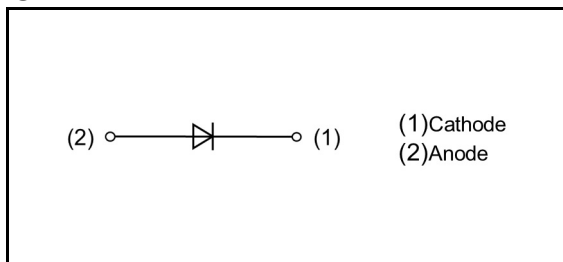
Parameter	Symbol	Conditions	Min.	Typ.	Max.	Unit
Forward voltage	V_F	$I_F=100\text{mA}$	-	-	1.2	V
Reverse current	I_R	$V_R=80\text{V}$	-	-	100	nA
Capacitance between terminals	C_t	$V_R=0.5\text{V } f=1.0\text{MHz}$	-	-	3.0	pF
Reverse recovery time	t_{rr}	$V_R=6.0\text{V } I_F=10\text{mA } R_L=100\Omega$	-	-	4.0	ns

※Caution: static electricity

● Outline



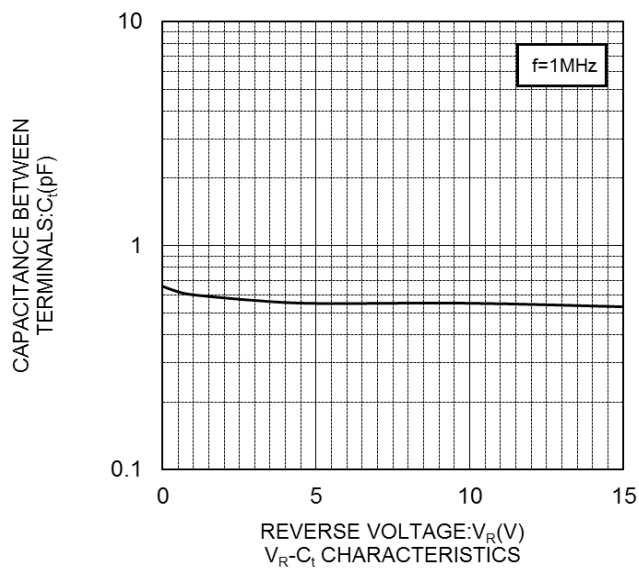
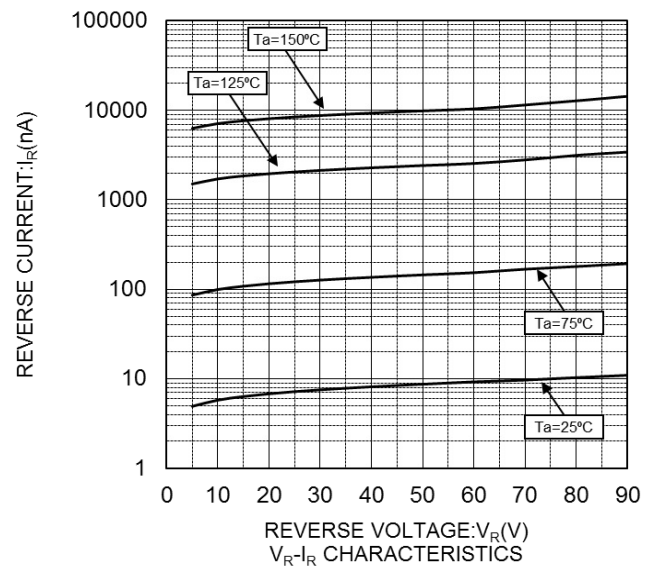
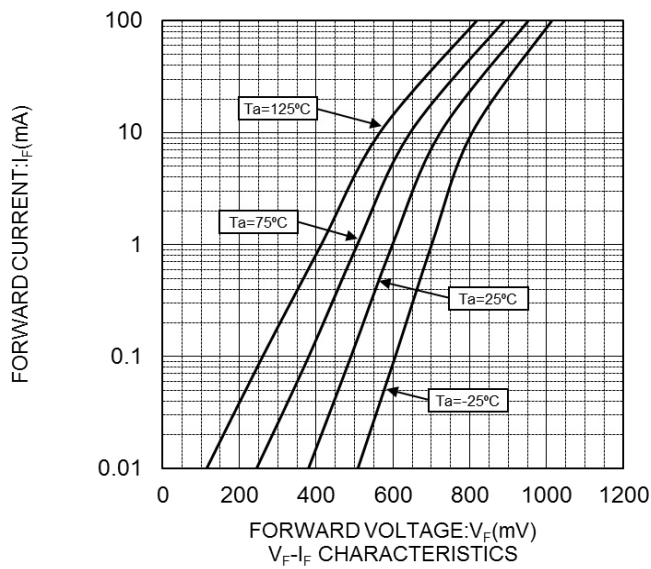
● Inner Circuit



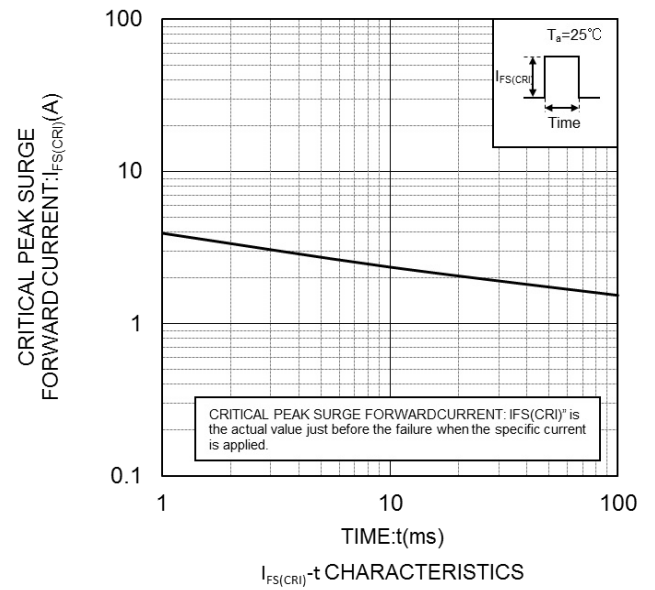
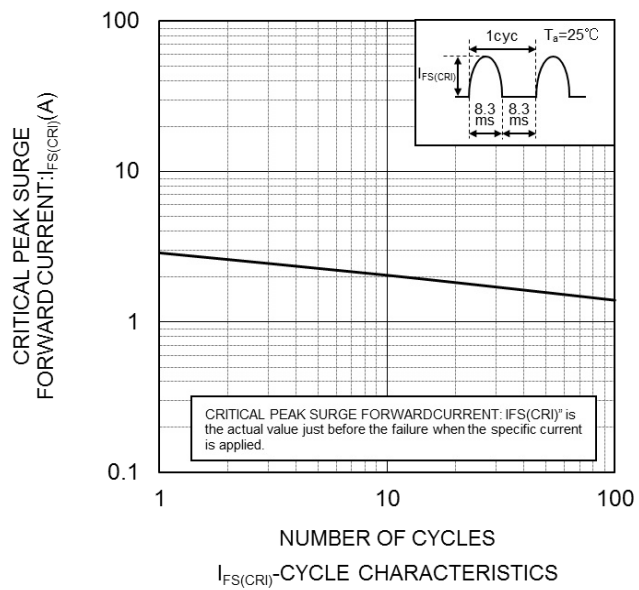
● Packaging Specifications

Packing	Embossed Tape
Reel Size(mm)	180
Taping Width(mm)	8
Quantity(pcs)	3000
Taping Code	TE-17
Marking	A

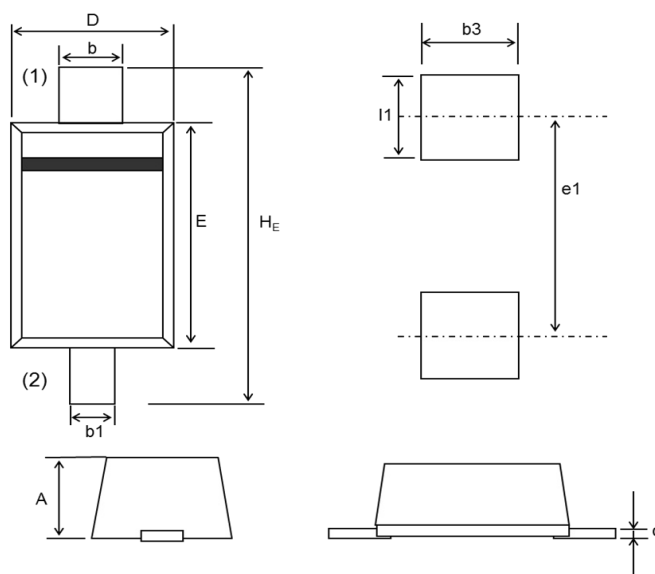
● Characteristic Curves



● Characteristic Curves



● Dimensions (SOD-323FL SC-90A UMD2_UT)



DIM	Millimeters			Inches		
	Min.	Average	Max.	Min.	Average	Max.
A	0.60	0.70	0.90	0.024	0.028	0.035
b	0.45	0.50	0.55	0.018	0.020	0.022
b1	0.30	0.35	0.40	0.012	0.014	0.016
c	0.08	0.13	0.23	0.003	0.005	0.009
D	1.15	1.25	1.35	0.045	0.049	0.053
E	1.60	1.70	1.80	0.063	0.067	0.071
H ₁	2.30	2.50	2.70	0.091	0.098	0.106
I1	0.80	-	-	0.031	-	-
b3	0.90	-	-	0.035	-	-
e1	-	2.1	-	-	0.083	-

(1) The marking bar indicates the cathode.

(2) The direction indicates the anode.

●Taping (Unit:mm)

