

V_{RM}	100	V
I_{FM}	500	mA
I_F	215	mA
I_{FSM}	4000	mA

● Features

- High reliability
- Small mold type

● Application

- General switching

● Structure

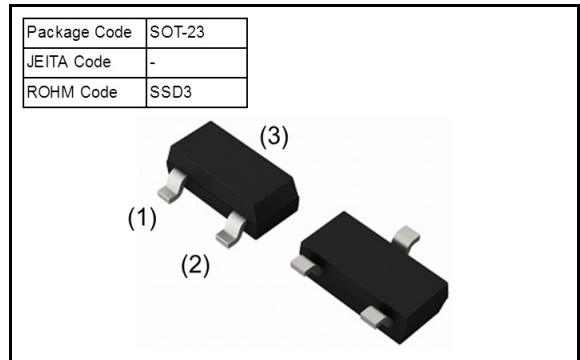
- Epitaxial planar

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

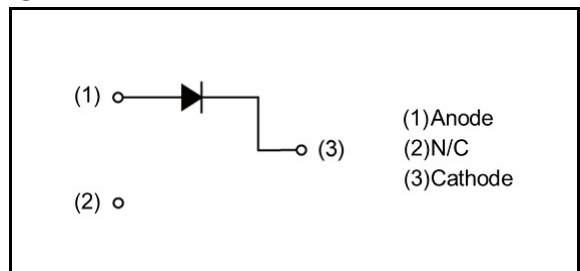
Parameter	Symbol	Conditions	Limits	Unit
Repetitive peak reverse voltage	V_{RM}	-	100	V
Reverse voltage	V_R	-	80	V
Power dissipation	P_D	$T_a \leq 25^\circ\text{C}$	250	mW
Repetitive peak reverse forward current	I_{FM}	-	500	mA
Peak forward surge current	I_{FSM}	$t=1\mu\text{s}$	4000	mA
Forward current	I_F	-	215	mA
Junction temperature	T_j	-	150	$^\circ\text{C}$
Storage temperature	T_{stg}	-	-65 ~ 150	$^\circ\text{C}$

※Caution: static electricity

● Outline



● Inner Circuit



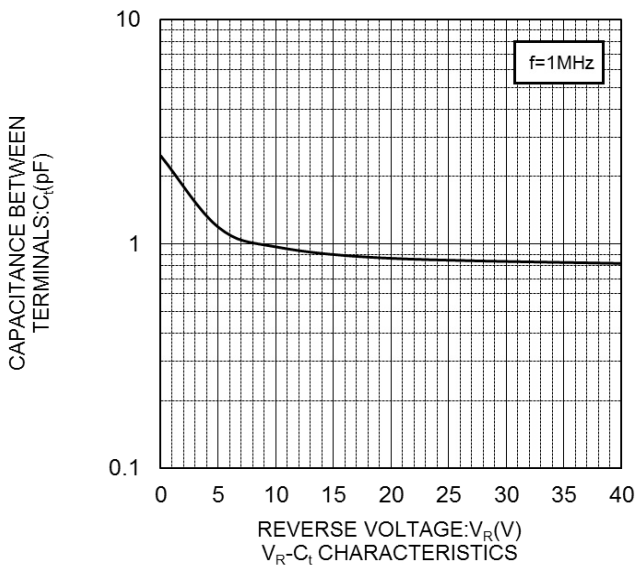
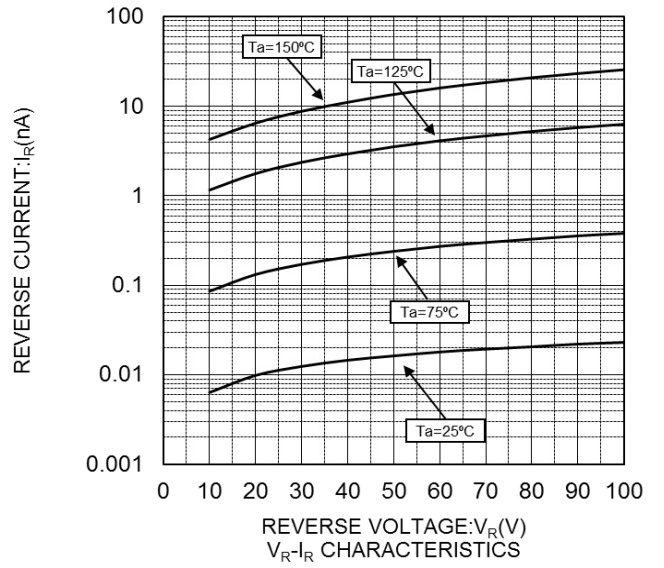
● Packaging Specifications

Packing	Embossed Tape
Reel Size(mm)	180
Taping Width(mm)	8
Basic Ordering Unit(pcs)	3000
Taping Code	T116
Marking	D8X

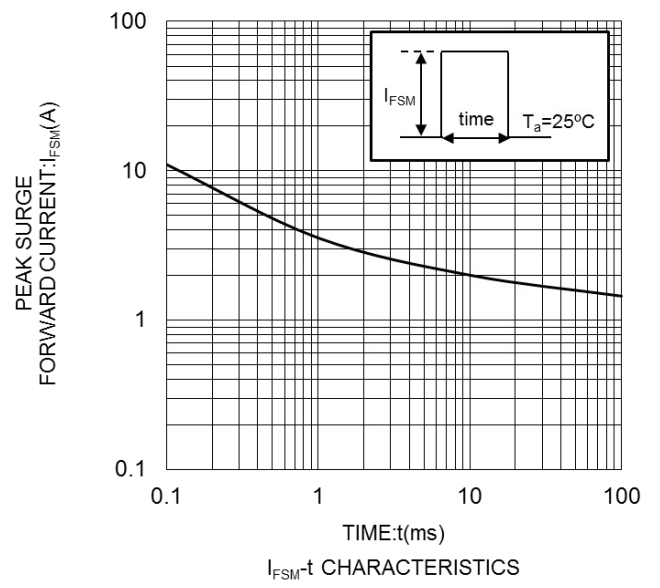
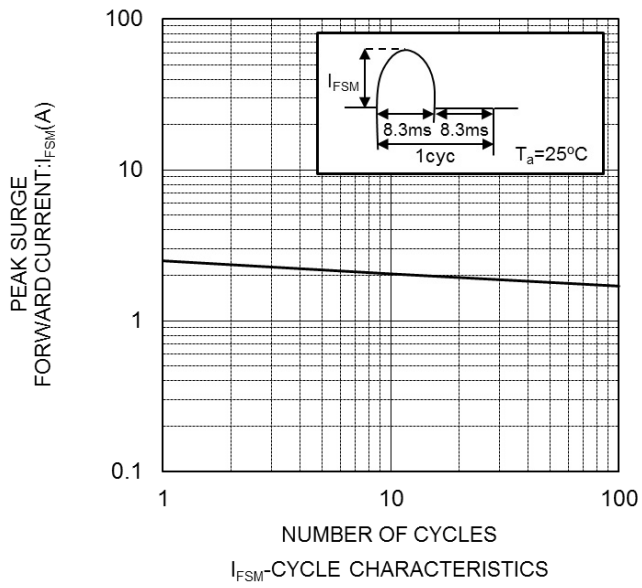
● Characteristics (T_a = 25°C)

Parameter	Symbol	Conditions	Min.	Typ.	Max.	Unit
Forward voltage	V _F	I _F =1mA	-	-	0.90	V
		I _F =10mA	-	-	1.00	V
		I _F =50mA	-	-	1.10	V
		I _F =150mA	-	-	1.25	V
Reverse current	I _R	V _R =75V T _j =25°C	-	-	5.0	nA
		V _R =75V T _j =150°C	-	-	80	nA
		-	-	-	-	A
Capacitance between terminals	C _t	V _R =0V f=1.0MHz	-	-	4.0	pF
Reverse recovery time	t _{rr}	I _F =I _R =10mA R _L =100Ω I _{rr} =1mA	-	-	3.0	μs

● Characteristic Curves



● Characteristic Curves



● Dimensions (SOT-23 SSD3)



DIM	Millimeters			Inches		
	Min.	Average	Max.	Min.	Average	Max.
A	0.85	0.95	1.15	0.033	0.037	0.045
A3	0.35	0.45	0.55	0.014	0.018	0.022
b	0.35	0.40	0.50	0.014	0.016	0.020
c	0.09	0.15	0.25	0.004	0.006	0.010
D	2.70	2.90	3.10	0.106	0.114	0.122
E	1.20	1.30	1.50	0.047	0.051	0.059
HE	2.20	2.40	2.60	0.087	0.094	0.102
L	0.20	-	-	0.008	-	-
e	1.70	1.90	2.10	0.067	0.075	0.083
l2	1.00	-	-	0.039	-	-
b2	0.80	-	-	0.031	-	-
e1	-	2.10	-	-	0.083	-
e2	-	1.90	-	-	0.075	-

● Taping (Unit:mm)

