

AEC-Q101 Qualified

●Application

General rectification

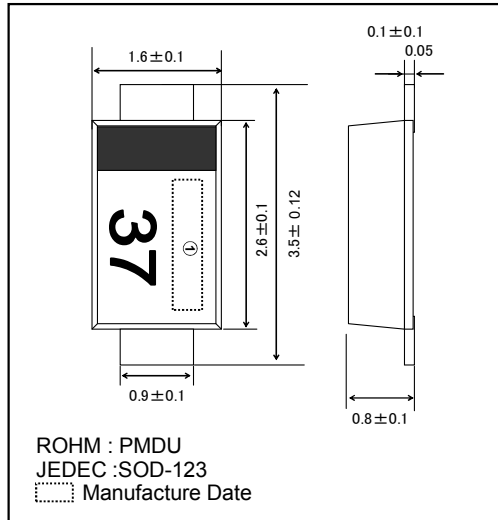
●Features

- 1) Small power mold type.
(PMDU)
- 2) Low I_R .
- 3) High reliability.

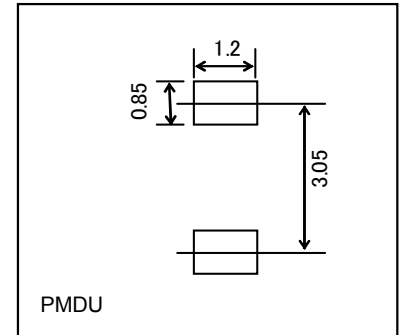
●Construction

Silicon epitaxial

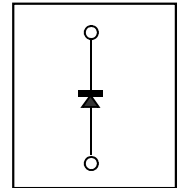
●Dimensions (Unit : mm)



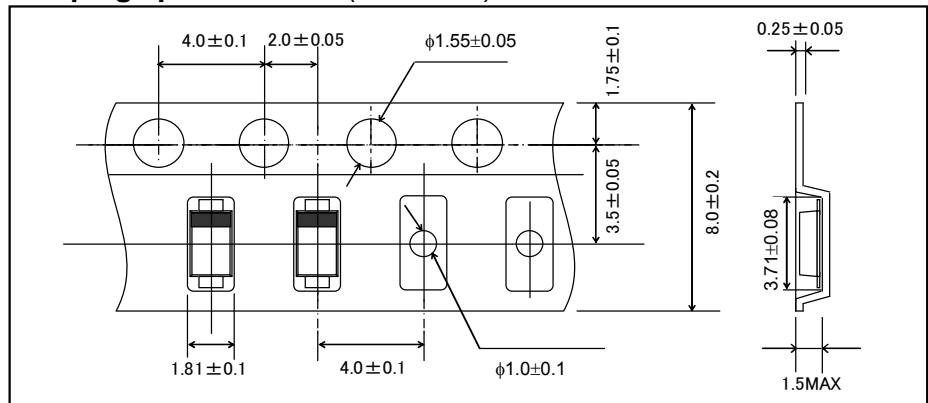
●Land size figure (Unit : mm)



●Structure



●Taping specifications (Unit : mm)



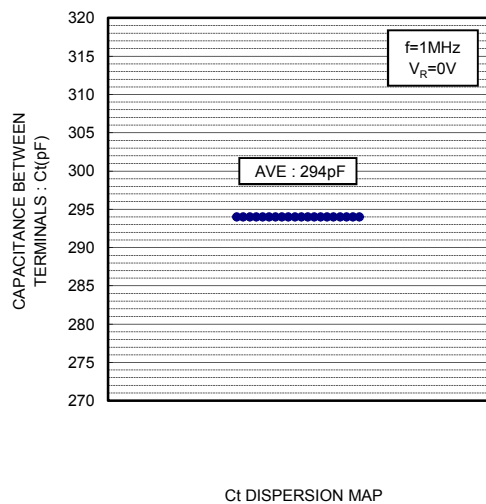
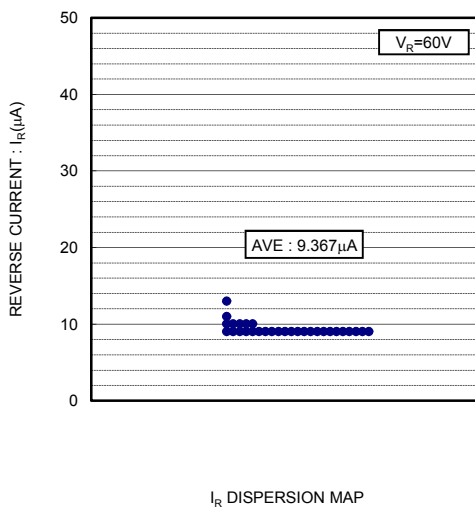
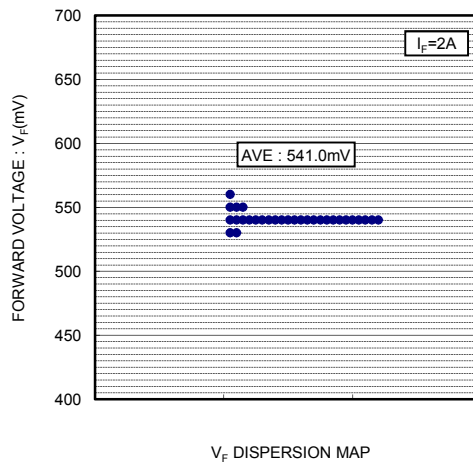
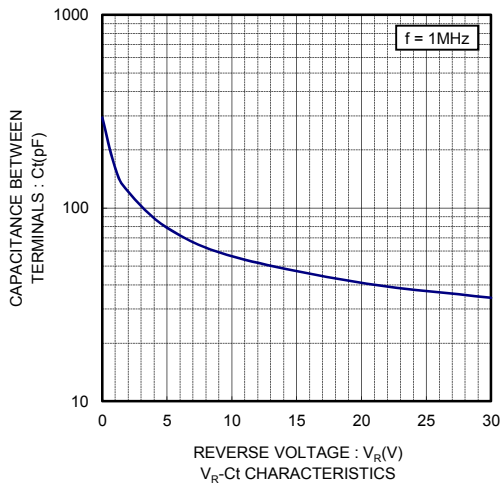
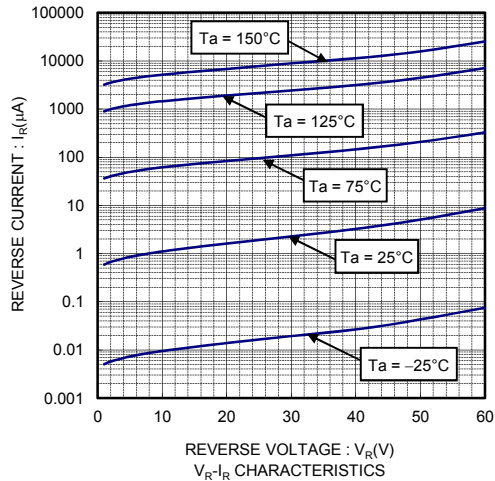
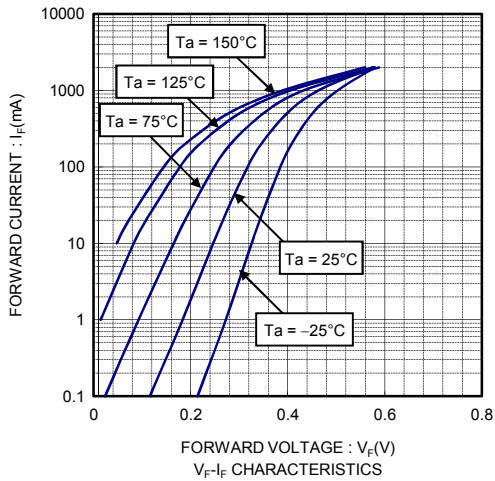
●Absolute maximum ratings (Ta = 25°C)

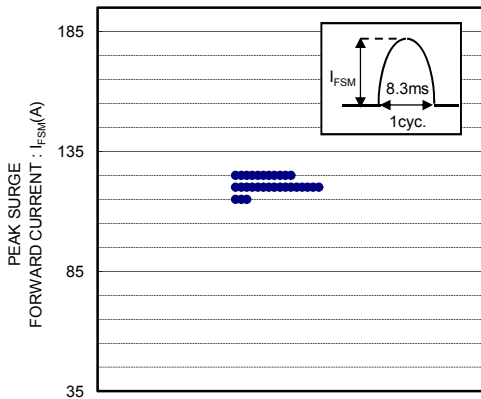
Parameter	Symbol	Limits	Unit
Reverse voltage (repetitive)	V_{RM}	60	V
Reverse voltage (DC)	V_R	60	V
Average rectified forward current (*1)	I_o	2	A
Forward current surge peak (60Hz·1cyc)	I_{FSM}	30	A
Junction temperature	T_j	150	°C
Storage temperature	T_{stg}	-40 to +150	°C

(*1) Mounted on epoxy board. $T_c=55^\circ\text{C}$ max.

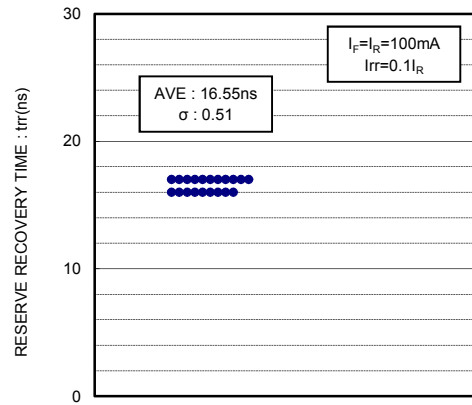
●Electrical characteristics (Ta = 25°C)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Forward voltage	V_{F1}	-	-	0.52	V	$I_F=1.0\text{A}$
	V_{F2}	-	-	0.61	V	$I_F=2.0\text{A}$
Reverse current	I_R	-	-	50	μA	$V_R=60\text{V}$

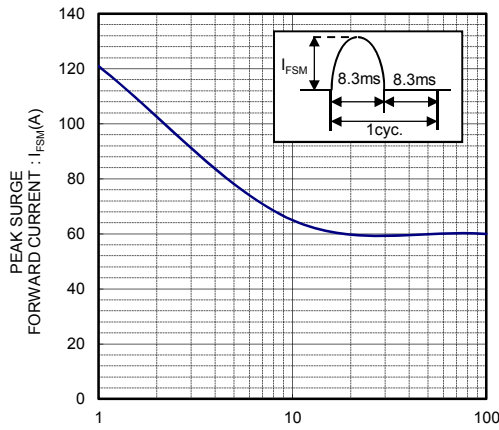




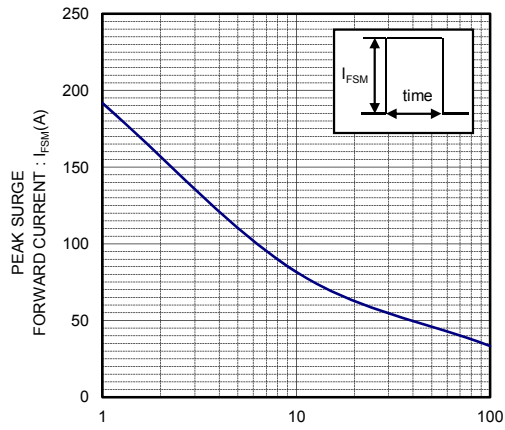
I_{FSM} DISPERSION MAP



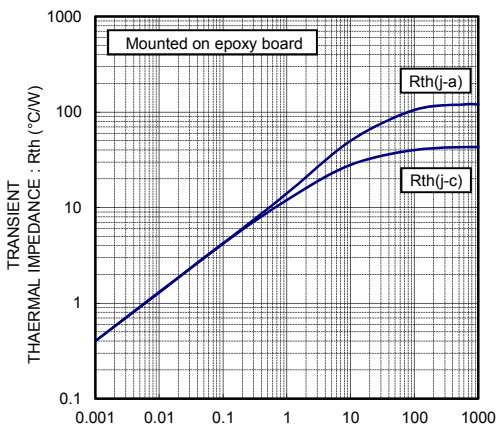
t_{tr} DISPERSION MAP



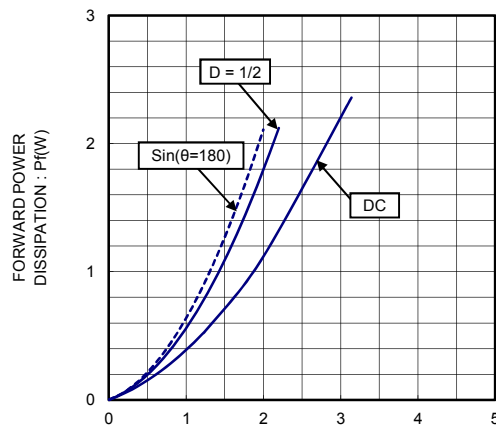
NUMBER OF CYCLES
 I_{FSM} -CYCLE CHARACTERISTICS



TIME : t(ms)
 I_{FSM} -t CHARACTERISTICS



TIME : t(s)
 R_{th} -t CHARACTERISTICS



AVERAGE RECTIFIED FORWARD CURRENT : I_o (A)
 I_o -Pf CHARACTERISTICS

