



Super Fast Recovery Diode

Series

Standard Fast Recovery

Applications

General rectification

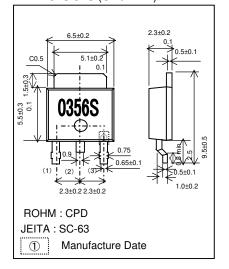
● Features

1)Low forward voltage 2)Low switching loss

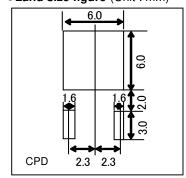
Construction

Silicon epitaxial planer

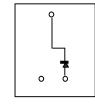
●Dimensions (Unit : mm)



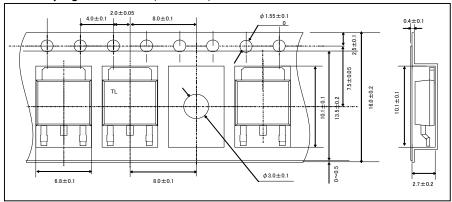
●Land size figure (Unit : mm)



●Structure



●Taping dimensions (Unit:mm)

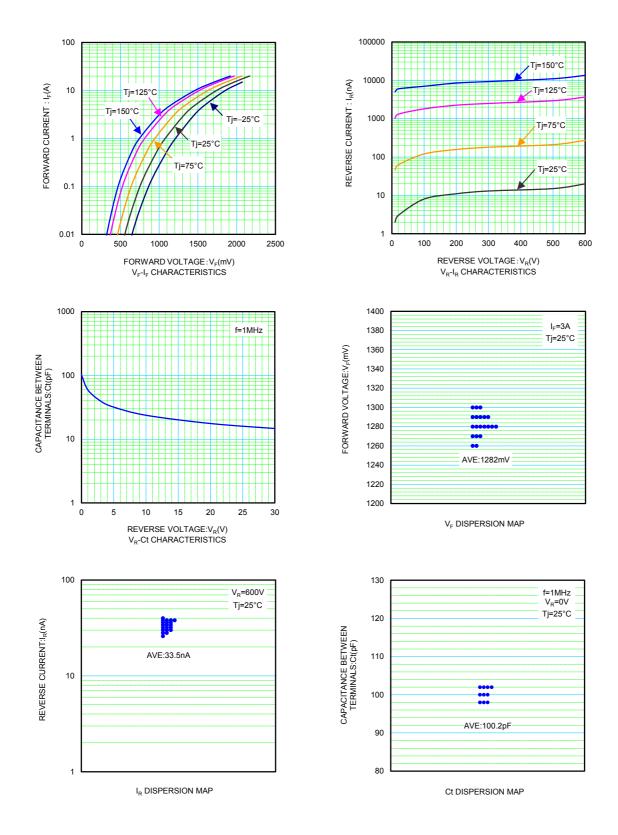


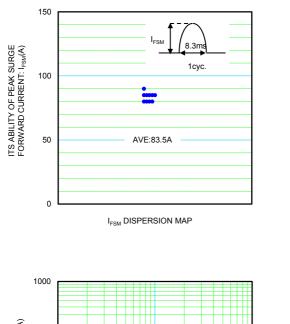
● Absolute maximum ratings (Tc=25°C)

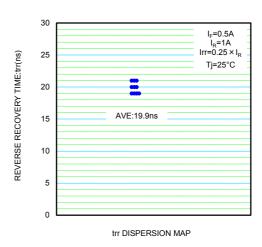
Parameter	Symbol	Conditions		Limits	Unit
Repetitive peak reverse voltage	V_{RM}	Duty≤0.5		600	V
Reverse voltage	V_R	Direct voltage		600	V
Average rectified forward current	lo	60Hz half sin wave, resistive load	Tc=83°C	3.0	Α
Forward current surge peak	I _{FSM}	60Hz half sin wave, Non-repetitive one cycle peak value, Tj=25°C		50	Α
Junction temperature	Tj			150	°C
Storage temperature	Tstg			-55 to +150	°C

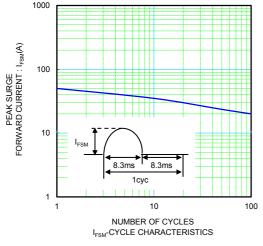
●Electrical characteristics (Tj=25°C)

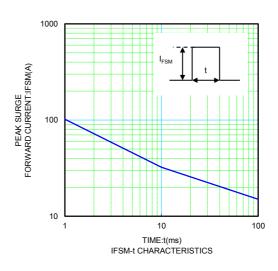
Parameter	Symbol	Conditions	Min.	Тур.	Max.	Unit
Forward voltage	V_{F}	I _F =3.0A	_	1.3	1.7	V
Reverse current	I _R	V _R =600V	_	0.04	10	μA
Reverse recovery time	trr	$I_F=0.5A$, $I_R=1A$, $I_R=0.25 \times I_R$	_	22	30	ns
Thermal resistance	Rth(j-l)	junction to lead	_	_	12	°C/W

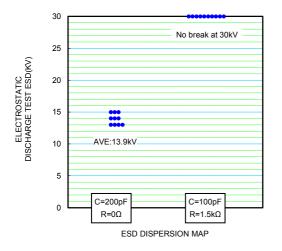


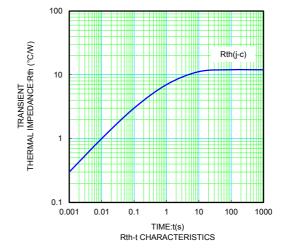


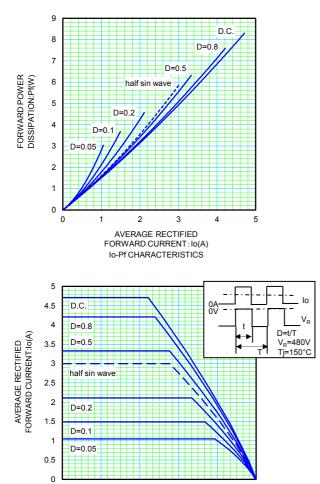








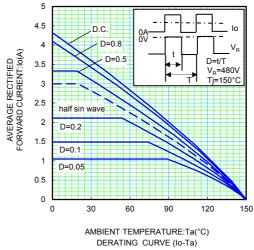




CASE TEMPERATURE:Tc(°C)
DERATING CURVE (Io-Tc)

120

150



0

30

Notes

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