# Rectifier diode

# 1SR156-400

# Applications

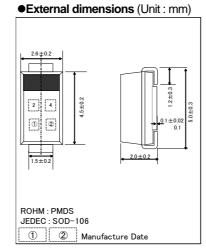
For fast rectifier

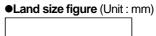
#### Features

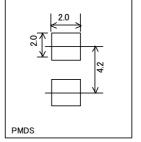
- 1) Small power mold type. (PMDS)
- 2) High reliability.
- 3) High switching speed.

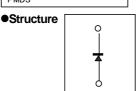
## Construction

Silicon diffused junction

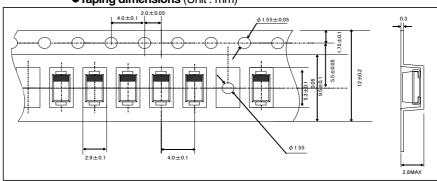












● Absolute maximum ratings (Ta=25°C)

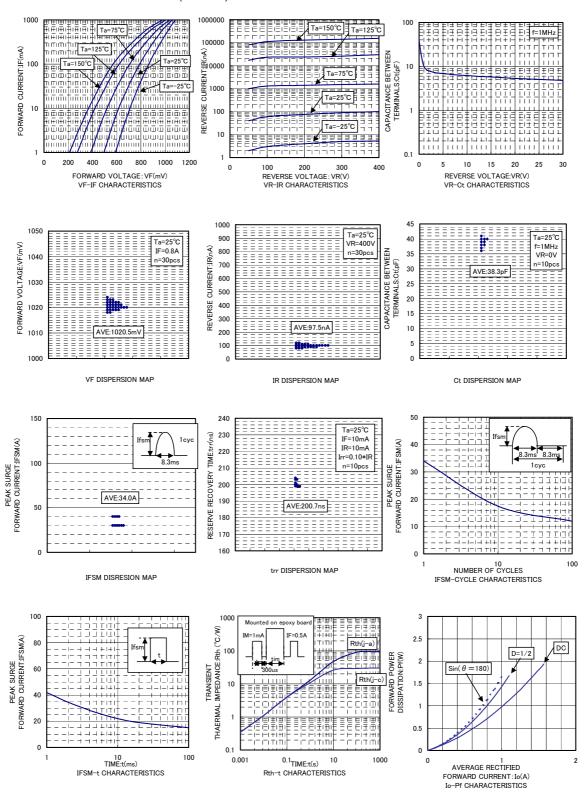
Parameter	Symbol	Limits	Unit
Reverse voltage (repetitive peak)	$V_{RMS}$	500	V
Reverse voltage (DC)	$V_R$	400	V
Average rectified forward current (*1)	lo	1	Α
Forward current surge peak (60Hz•1cyc)	I <sub>FSM</sub>	20	Α
Junction temperature	Tj	150	°C
Storage temperature	Tstg	-55 to +150	°C

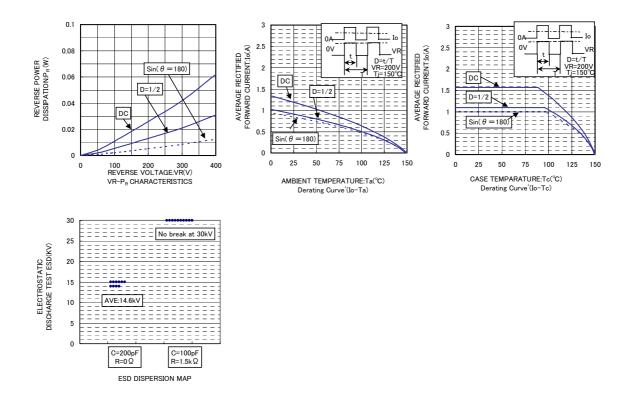
<sup>(\*1)</sup> Mounting on alumina board

# ●Electrical characteristics (Ta=25°C)

Parameter	Symbol	Min.	Тур.	Max.	Unit	Conditions
Forward voltage	$V_{F}$	-	-	1.3	V	I <sub>F</sub> =0.8A
Reverse current	I <sub>R</sub>	-	-	10	uA	V <sub>R</sub> =400V
Reverse recovery time	trr	-	-	0.4	us	I <sub>F</sub> =10mA,I <sub>R</sub> =10mA,Irr=1mA

### ●Electrical characteristic curves (Ta=25°C)





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