

# Schottky Barrier Diode

**RB520ZS8A30**

**●Applications**

Rectifying small power

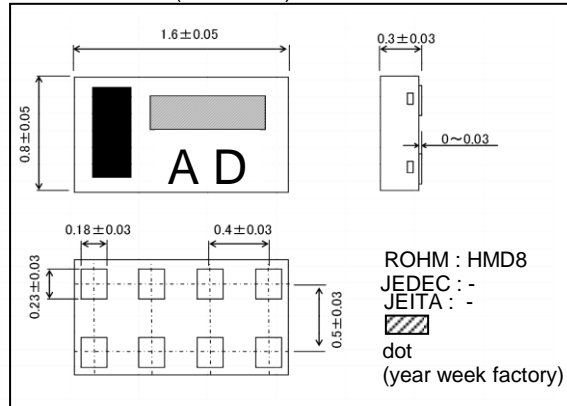
**●Features**

- 1) Ultra small mold type (HMD8)
- 2) Halogen Free

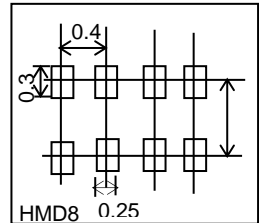
**●Construction**

Silicon epitaxial planer

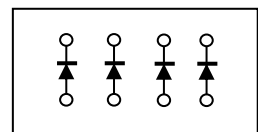
**●Dimensions (Unit : mm)**



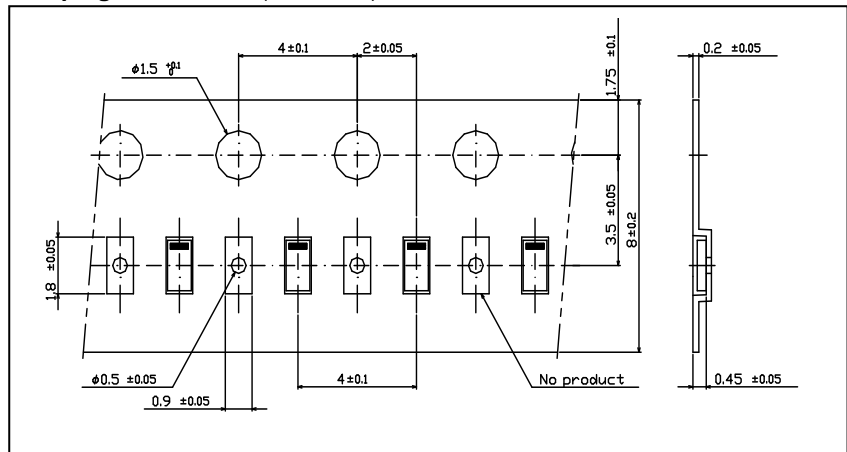
**●Land size figure (Unit : mm)**



**●Structure**



**●Taping dimensions (Unit : mm)**



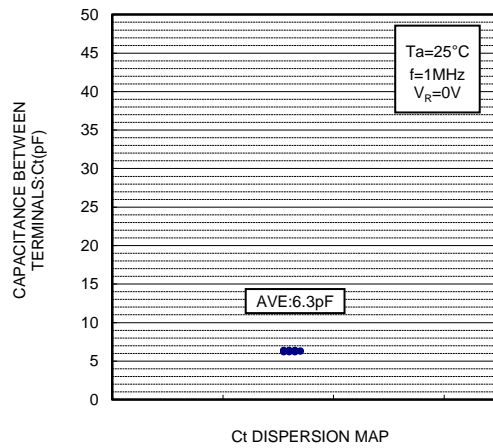
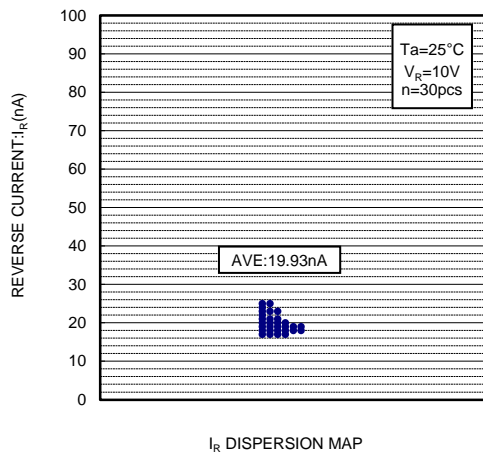
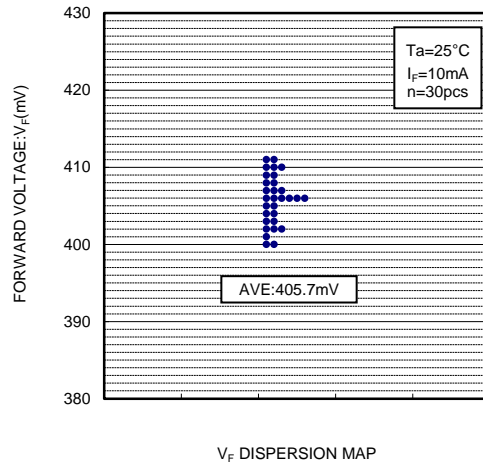
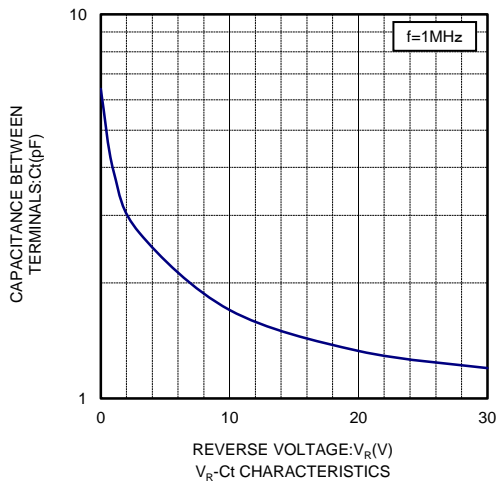
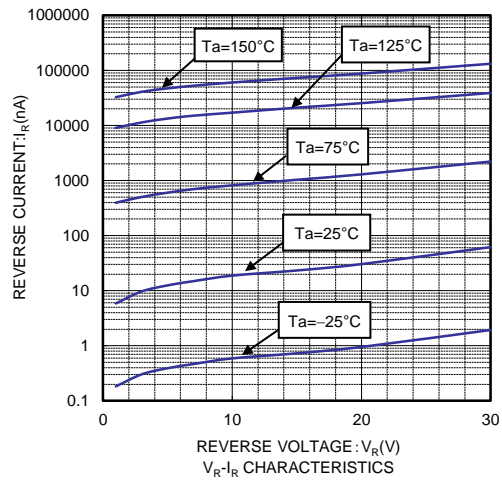
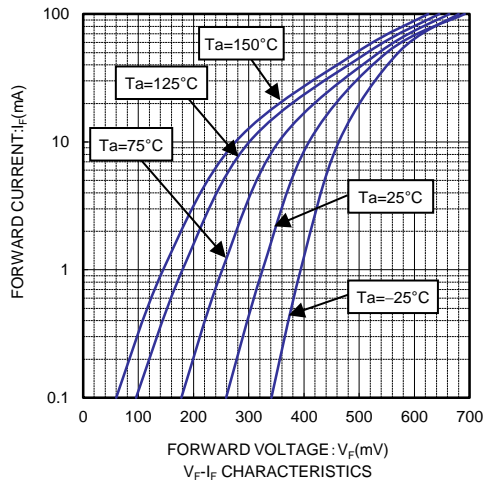
**●Absolute maximum ratings (Ta=25°C)**

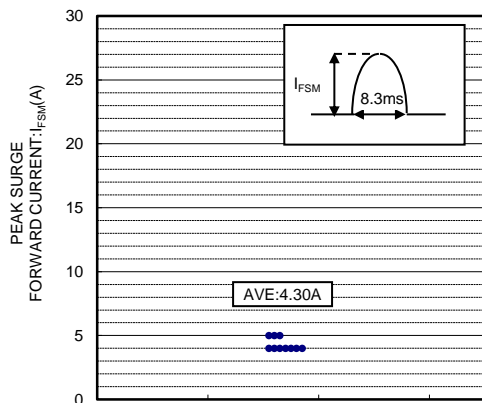
Parameter	Symbol	Limits	Unit
Reverse voltage (DC)	$V_R$	30	V
Average rectified forward current (*1)	$I_o$	100	mA
Forward current surge peak (60Hz·1cyc.) (*2)	$I_{FSM}$	500	mA
Junction temperature	$T_j$	150	°C
Storage temperature	$T_{stg}$	-55 to +150	°C
Power dissipation	$P_d$	400	mW/Total

(\*1)(\*2)Rating of per diode

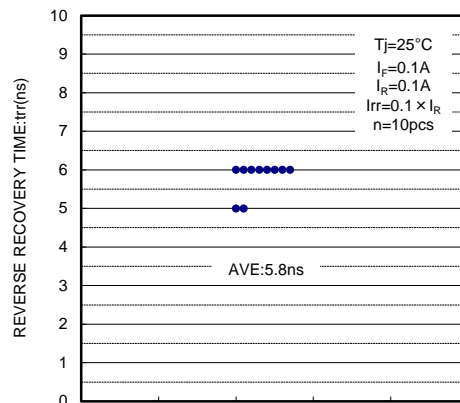
**●Electrical characteristics (Ta=25°C)**

Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Forward voltage	$V_F$	-	-	0.46	V	$I_F=10\text{mA}$
Reverse current	$I_R$	-	-	0.3	$\mu\text{A}$	$V_R=10\text{V}$

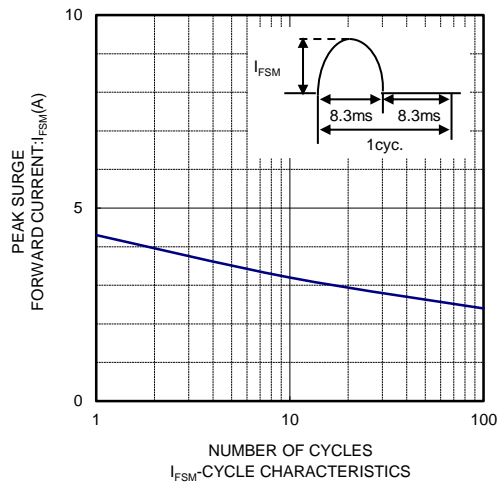




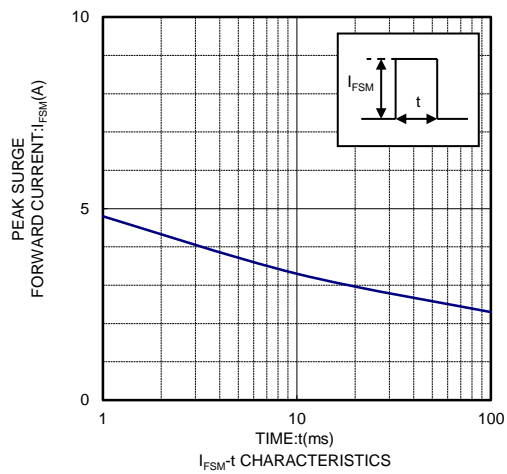
$I_{FSM}$  DISPERSION MAP



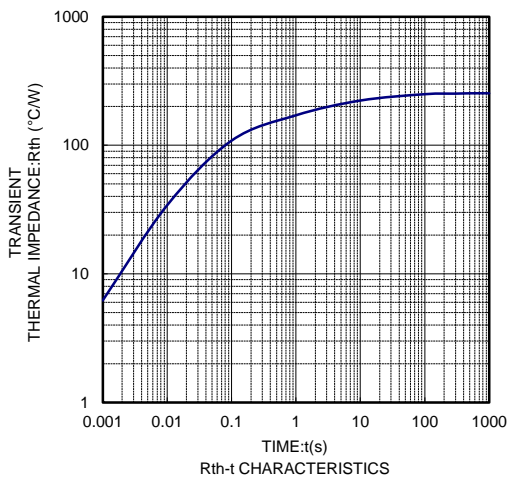
trr DISPERSION MAP



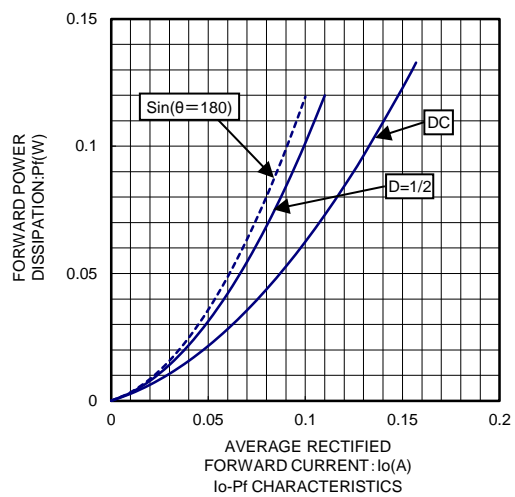
$I_{FSM}$  CYCLE CHARACTERISTICS



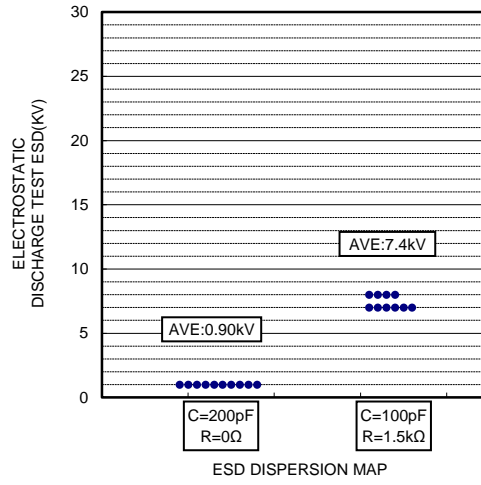
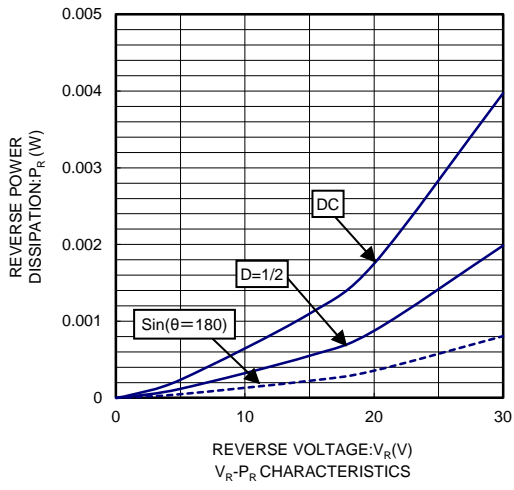
$I_{FSM}$ -t CHARACTERISTICS



$R_{th}$ -t CHARACTERISTICS



$I_o$ -P<sub>f</sub> CHARACTERISTICS



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