

# Schottky Barrier Diode

RB160SS-40

●Applications

Small current rectification

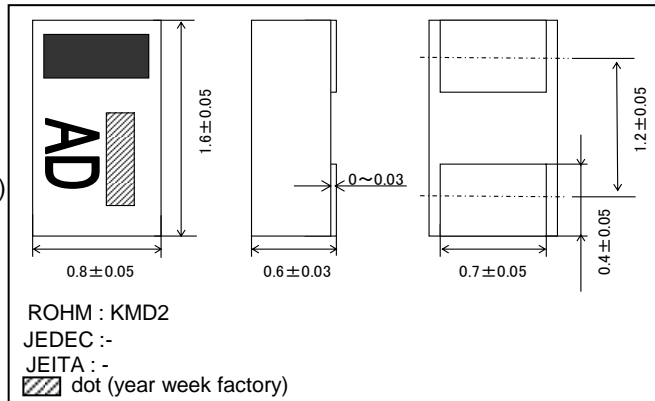
●Features

- 1) Small power mold type (KMD2)
- 2) High reliability
- 3) Low  $I_R$

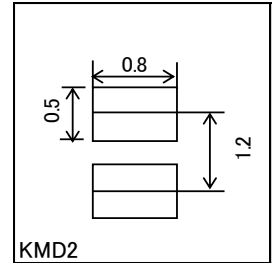
●Construction

Silicon epitaxial planer

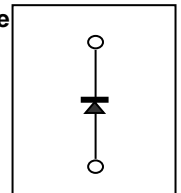
●Dimensions (Unit : mm)



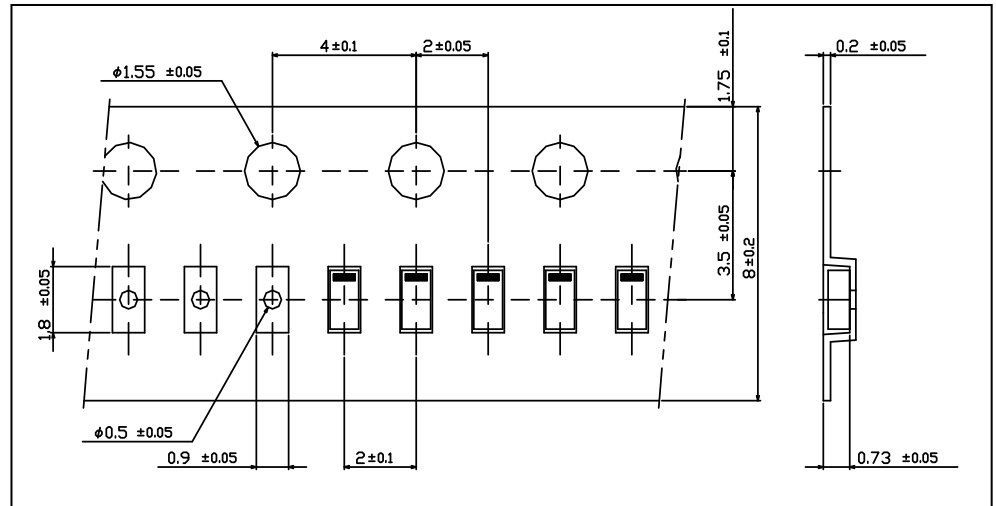
●Land size figure (Unit : mm)



●Structure



●Taping dimensions (Unit : mm)



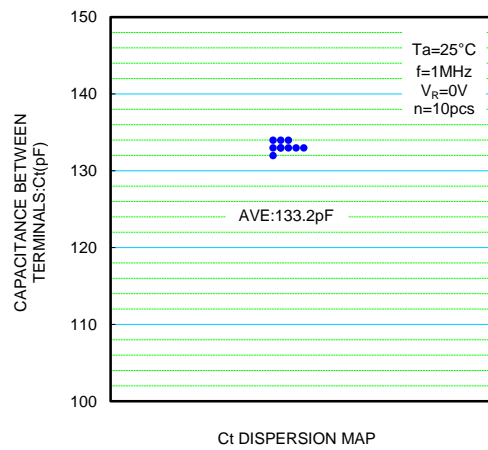
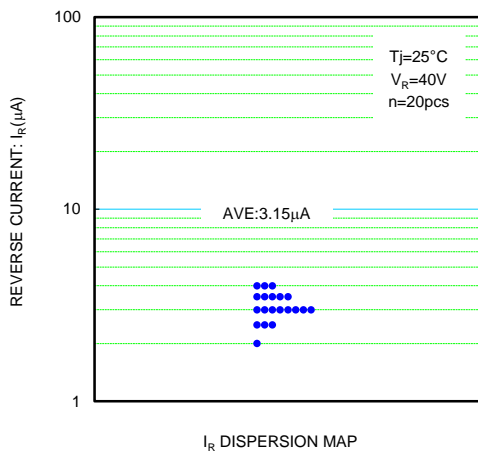
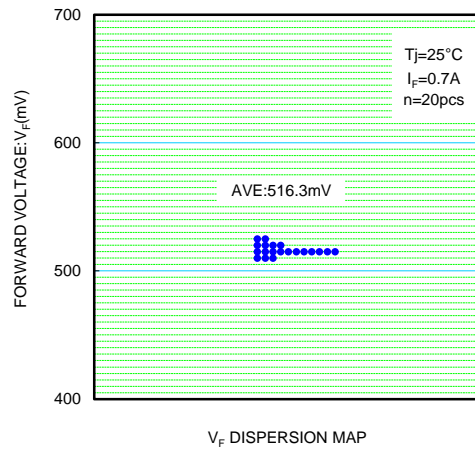
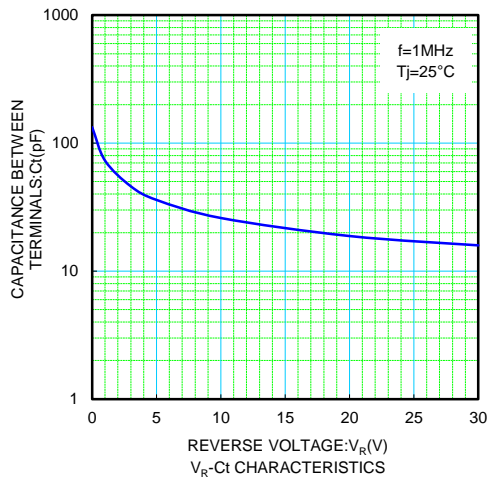
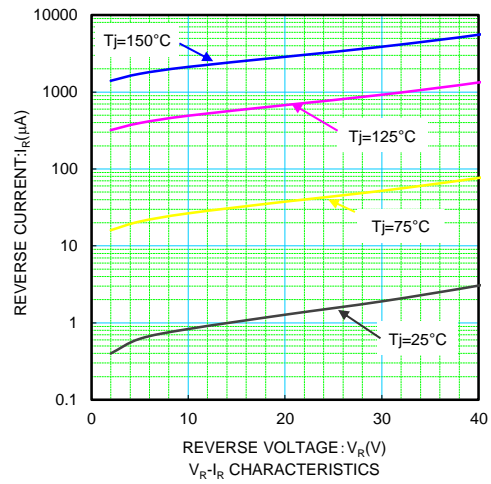
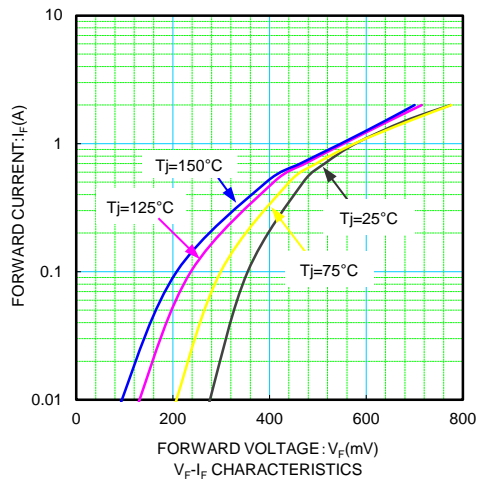
●Absolute maximum ratings (Ta=25°C)

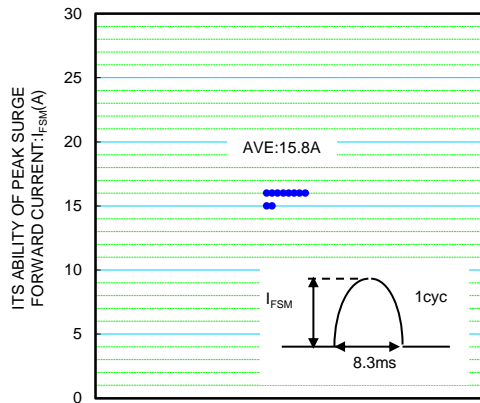
Parameter	Symbol	Limits	Unit
Reverse voltage (repetitive peak)	$V_{RM}$	40	V
Reverse voltage (DC)	$V_R$	40	V
Average rectified forward current (*1)	$I_o$	1	A
Forward current surge peak(60Hz·1cyc.)	$I_{FSM}$	5	A
Junction temperature	$T_j$	150	°C
Storage temperature	$T_{stg}$	-40 to +150	°C

(\*1) On the Glass epoxy substrate , 180°Half Sine wave

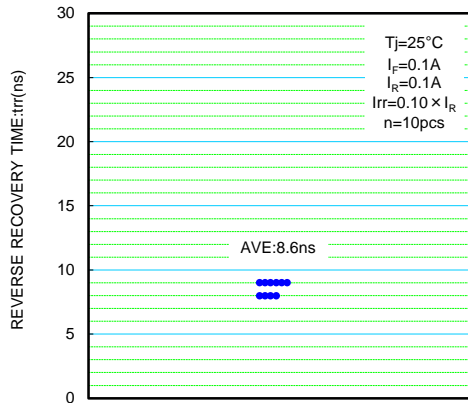
●Electrical characteristics (Ta=25°C)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Forward voltage	$V_F$	-	0.50	0.55	V	$I_F=0.7A$
Reverse current	$I_R$	-	3.00	50.00	μA	$V_R=40V$

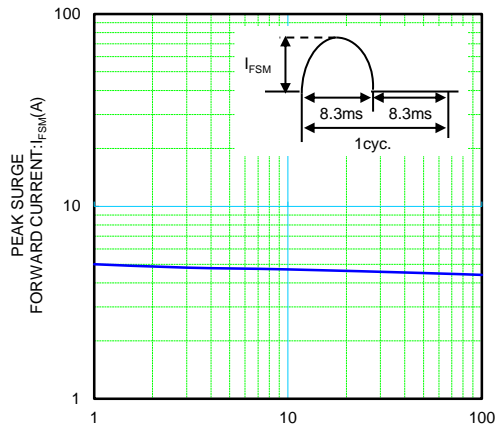




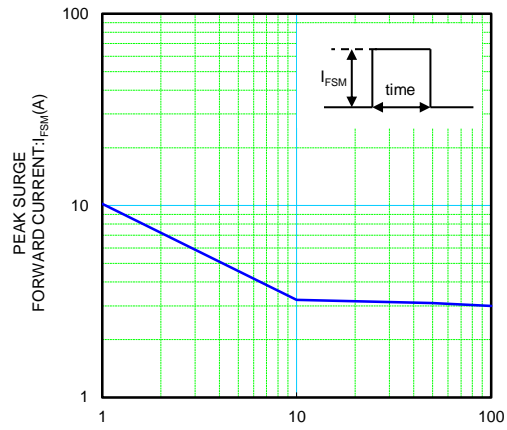
$I_{FSM}$  DISPERSION MAP



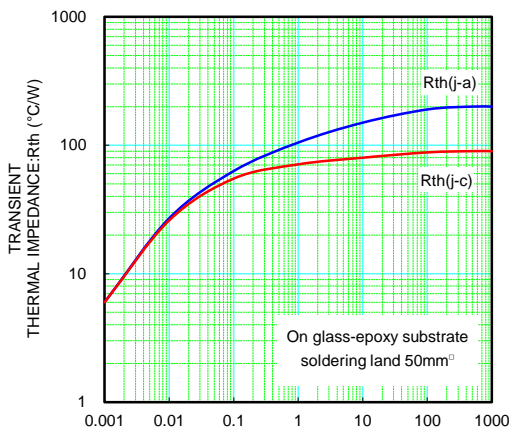
$t_{rr}$  DISPERSION MAP



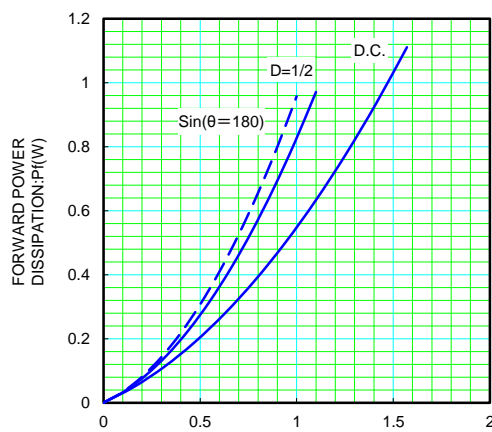
$I_{FSM}$  CYCLE CHARACTERISTICS



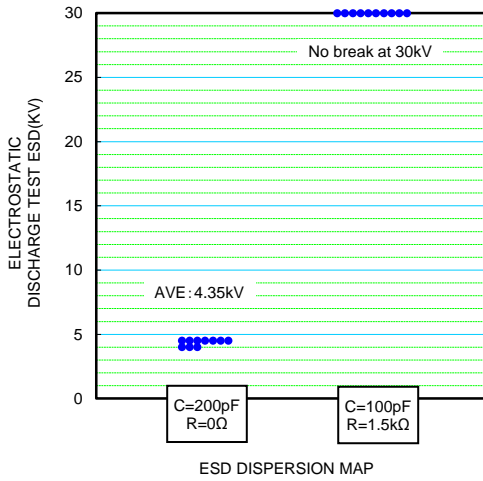
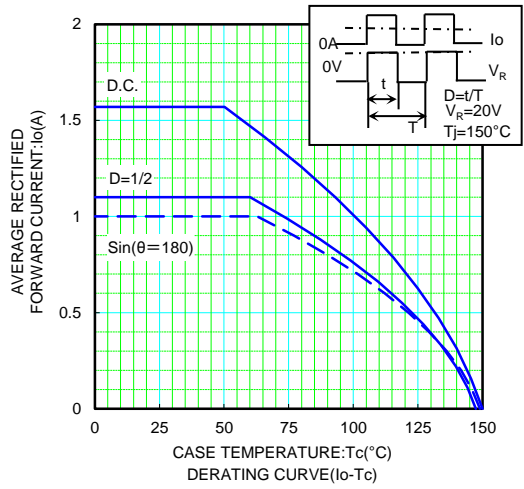
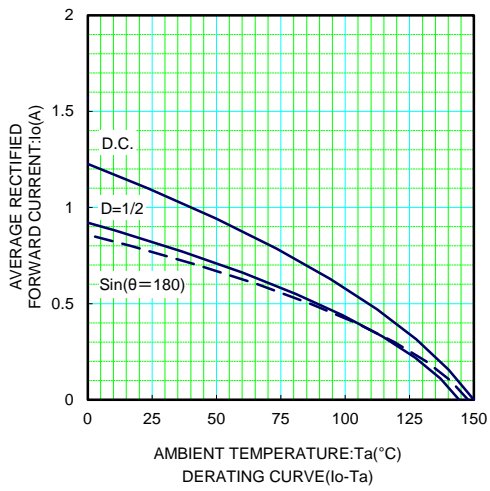
$I_{FSM}$ - $t$  CHARACTERISTICS



$R_{th}$ - $t$  CHARACTERISTICS



$I_o$ - $P$  CHARACTERISTICS



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