

ME03HD10

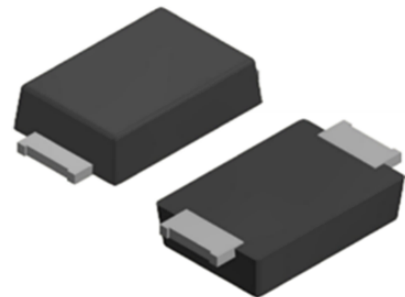
Schottky Barrier Diodes
100V, 3A

Feature

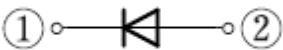
- Low I_R
- High Recovery Speed
- RoHS:Yes

OUTLINE

Package (House Name): SOD-128



Equivalent circuit



Absolute Maximum Ratings

Item	Symbol	Conditions	Ratings	Unit
Storage temperature	Tstg		-55 to 150	°C
Junction temperature	Tj		-55 to 150	°C
Repetitive peak reverse voltage	VRRM		100	V
Average forward current	IF(AV)	Tl=98°C	3	A
Average forward current	IF(AV)		4.71	A
Surge forward current	IFSM	50Hz half sine wave, 1 cycle, Non-repetitive	60	A

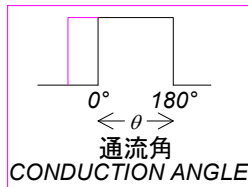
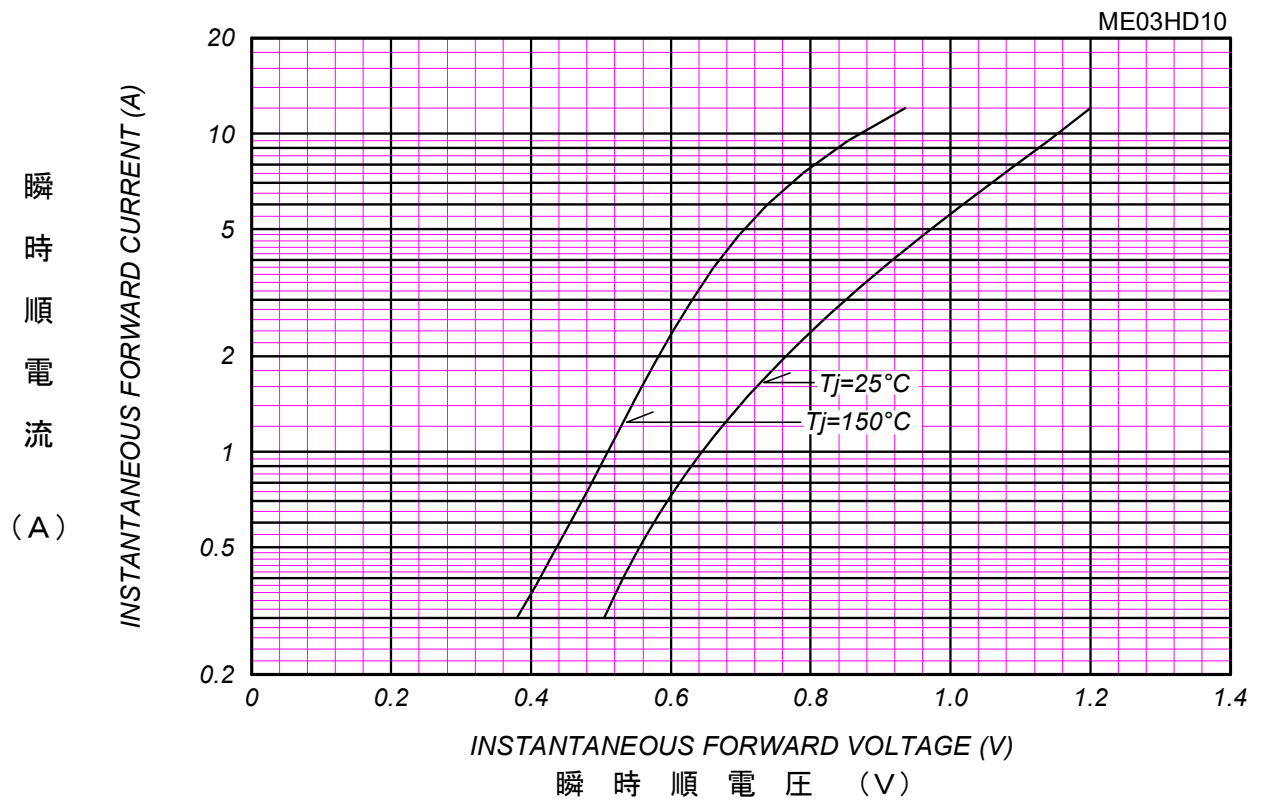
※ :See the original Specifications

Electrical Characteristics

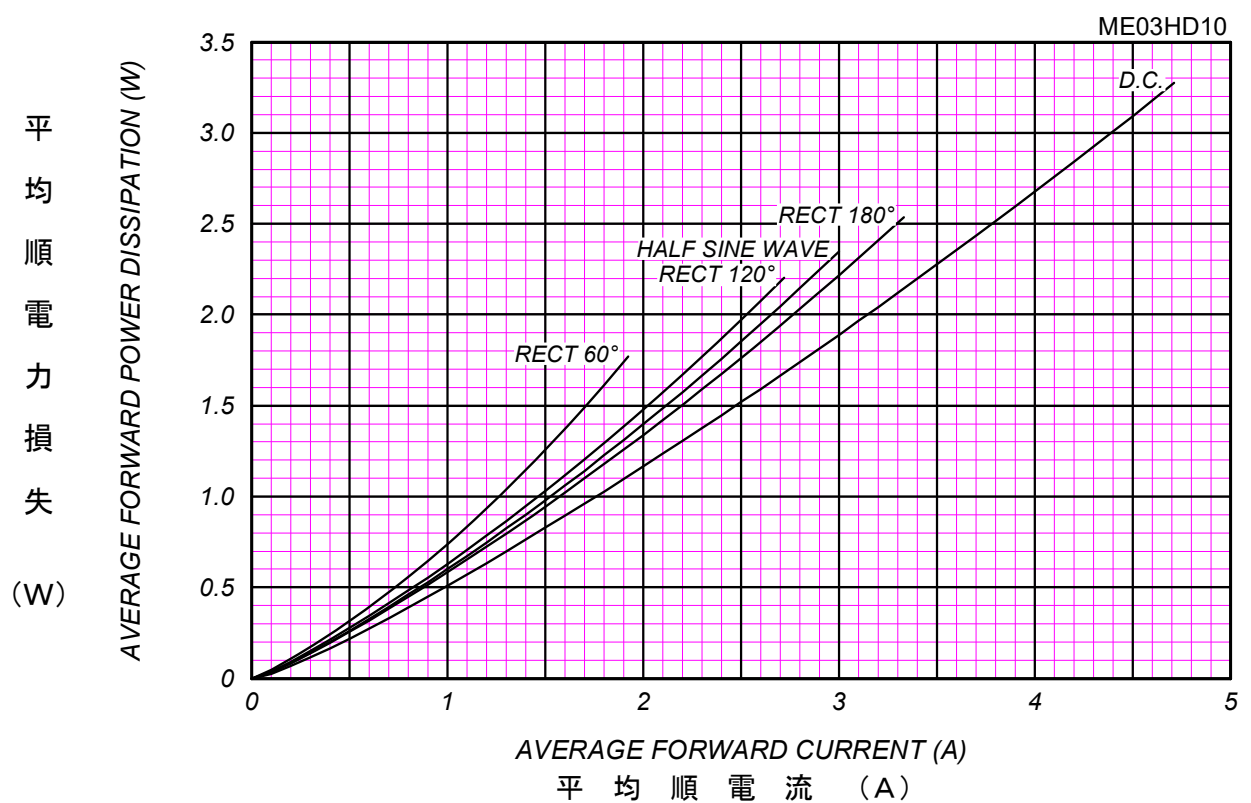
Item	Symbol	Conditions	Ratings			Unit
			MIN	TYP	MAX	
Forward voltage	VF	IF=3A, Tj=25°C	-	-	0.85	V
Reverse current	IR	VR=VRRM, Tj=25°C	-	-	0.1	mA
Thermal resistance	Rth(j-l)	Junction to lead	-	-	15	°C/W
Thermal resistance	Rth(j-a)	Junction to ambient (P.C.Board mounted)	-	-	80	°C/W

※ :See the original Specifications

順電圧特性
FORWARD CURRENT VS. VOLTAGE

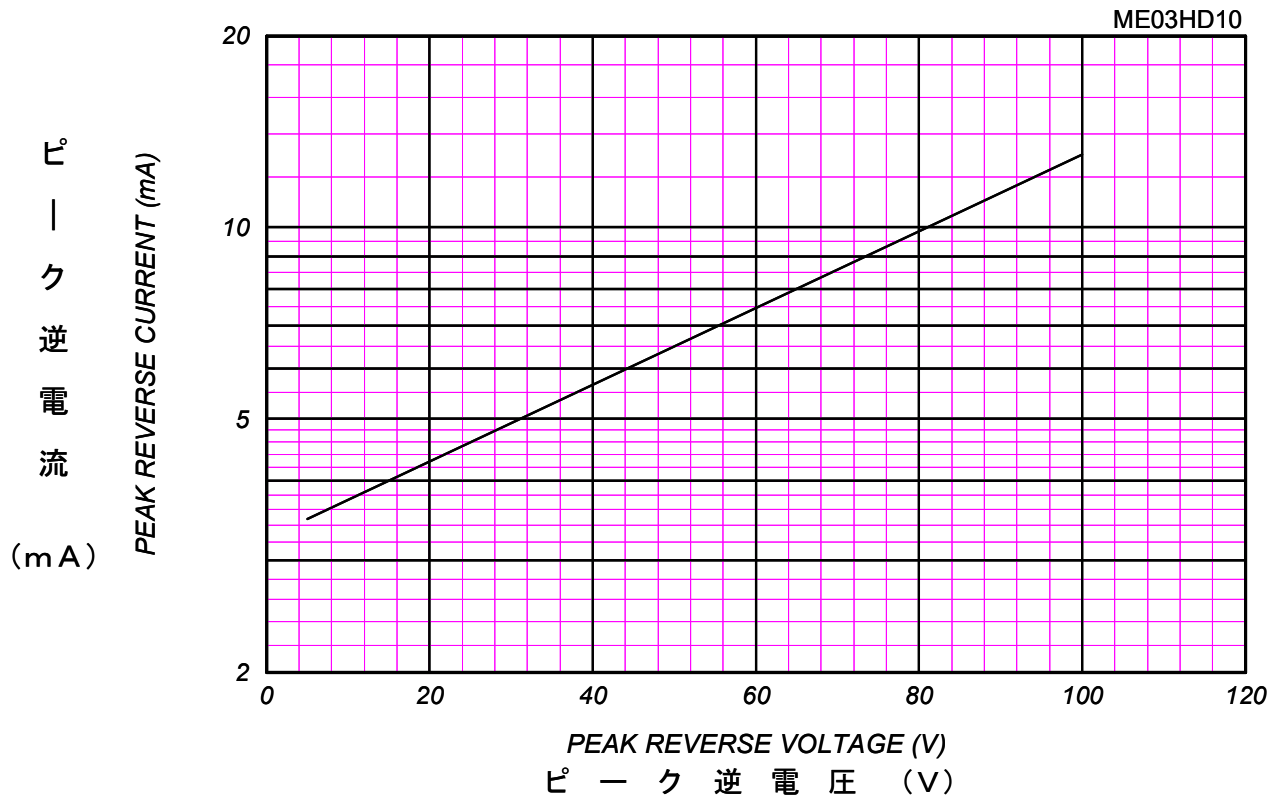


平均順電力損失特性
AVERAGE FORWARD POWER DISSIPATION

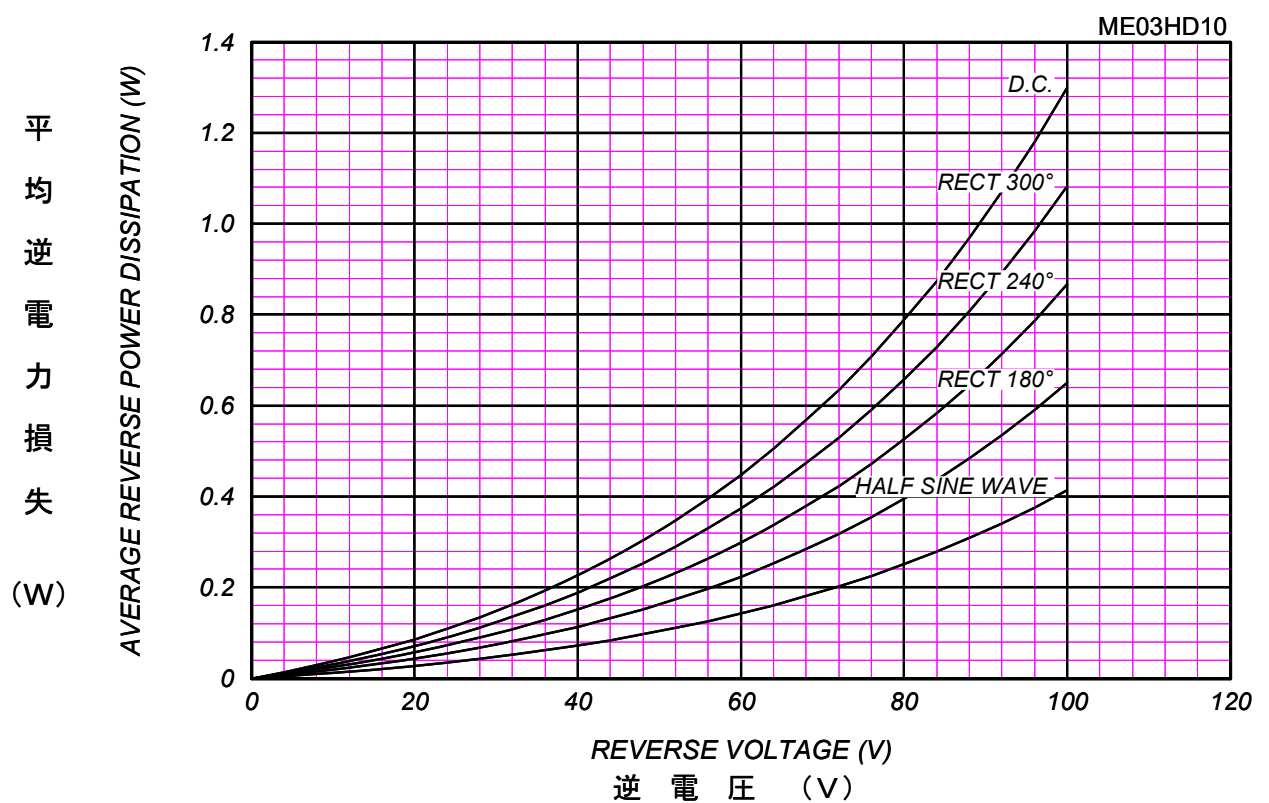


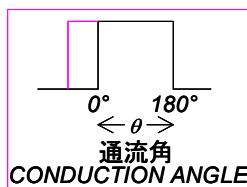
ピーク逆電流 — ピーク逆電圧特性
PEAK REVERSE CURRENT VS. PEAK REVERSE VOLTAGE

$T_J = 150\text{ }^{\circ}\text{C}$



平均逆電力損失
AVERAGE REVERSE POWER DISSIPATION

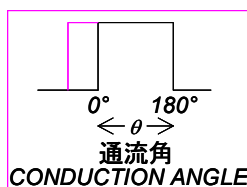
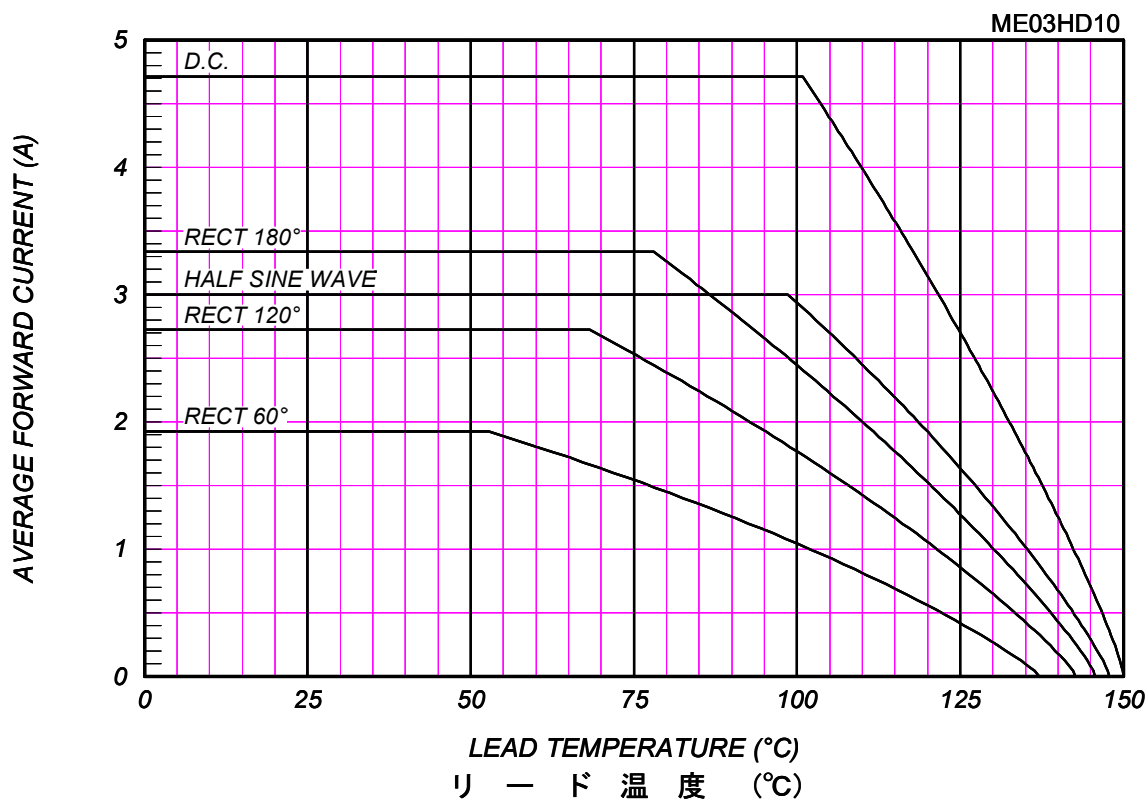




平均順電流－リード温度定格
AVERAGE FORWARD CURRENT VS. LEAD TEMPERATURE

$V_{RM}=50V$

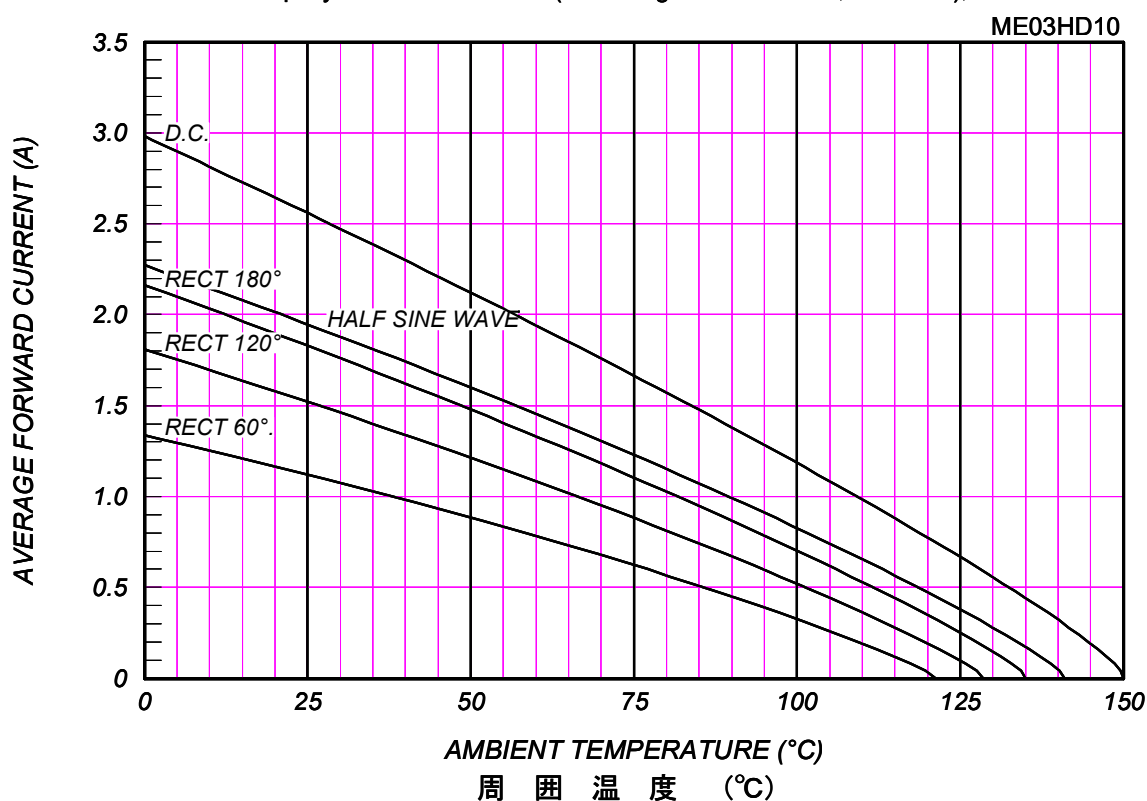
平均順電流
(A)



平均順電流－周囲温度定格
AVERAGE FORWARD CURRENT VS. AMBIENT TEMPERATURE

Glass-Epoxy Substrate Mounted (Soldering Land=2×2mm, Both side), $V_{RM}=50V$

平均順電流
(A)



サージ順電流定格 SURGE CURRENT RATINGS

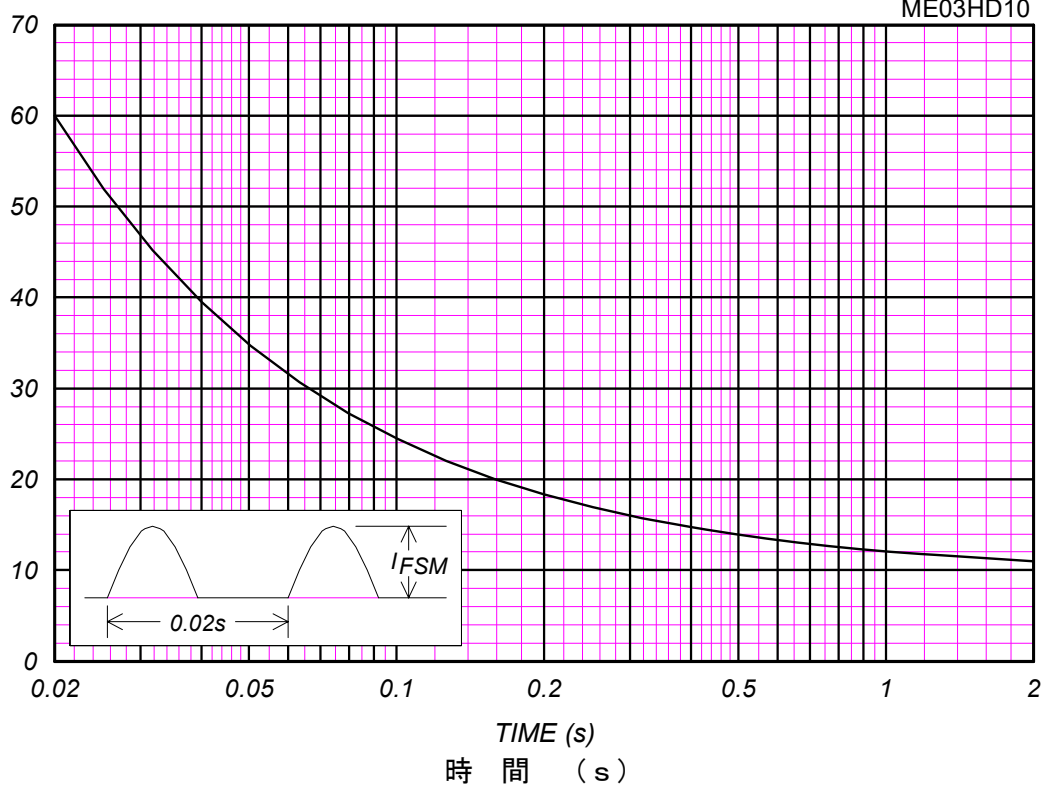
f=50Hz, Half Sine Wave, Non-Repetitive, No Load

ME03HD10

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(A)

SURGE FORWARD CURRENT (A)



接合容量特性 JUNCTION CAPACITANCE VS. REVERSE VOLTAGE

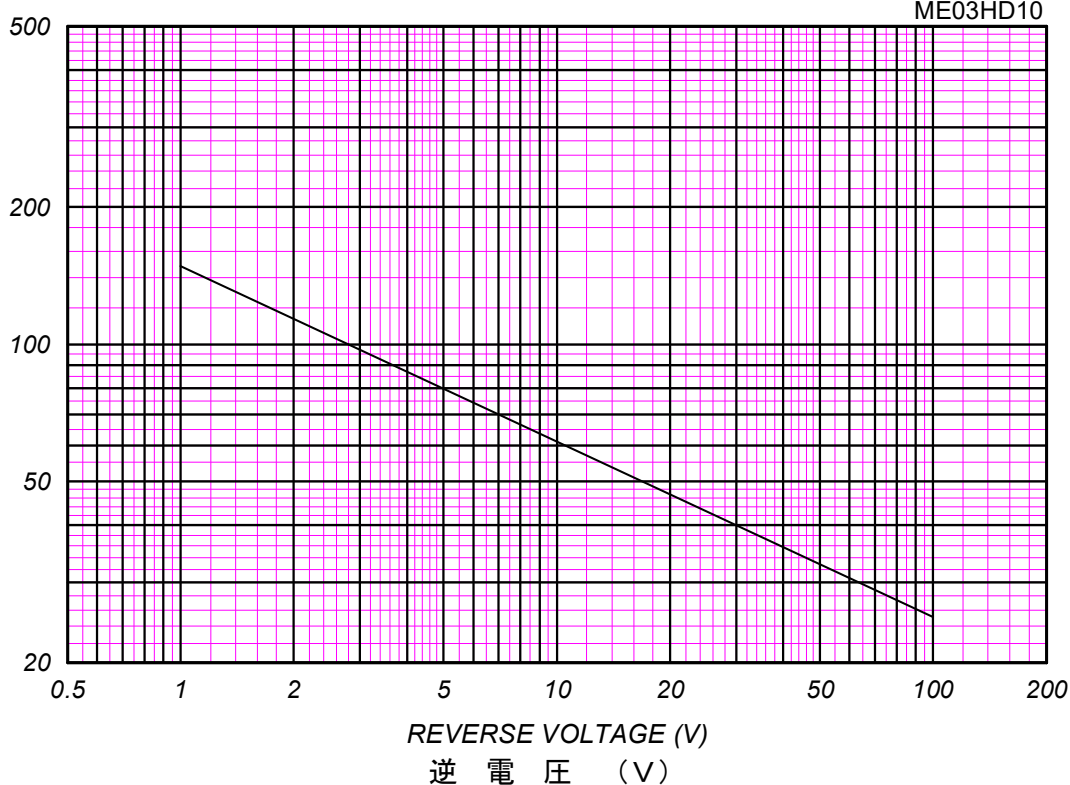
T_j=25°C, V_m=20mV_{RMS}, f=100kHz, Typical Value

ME03HD10

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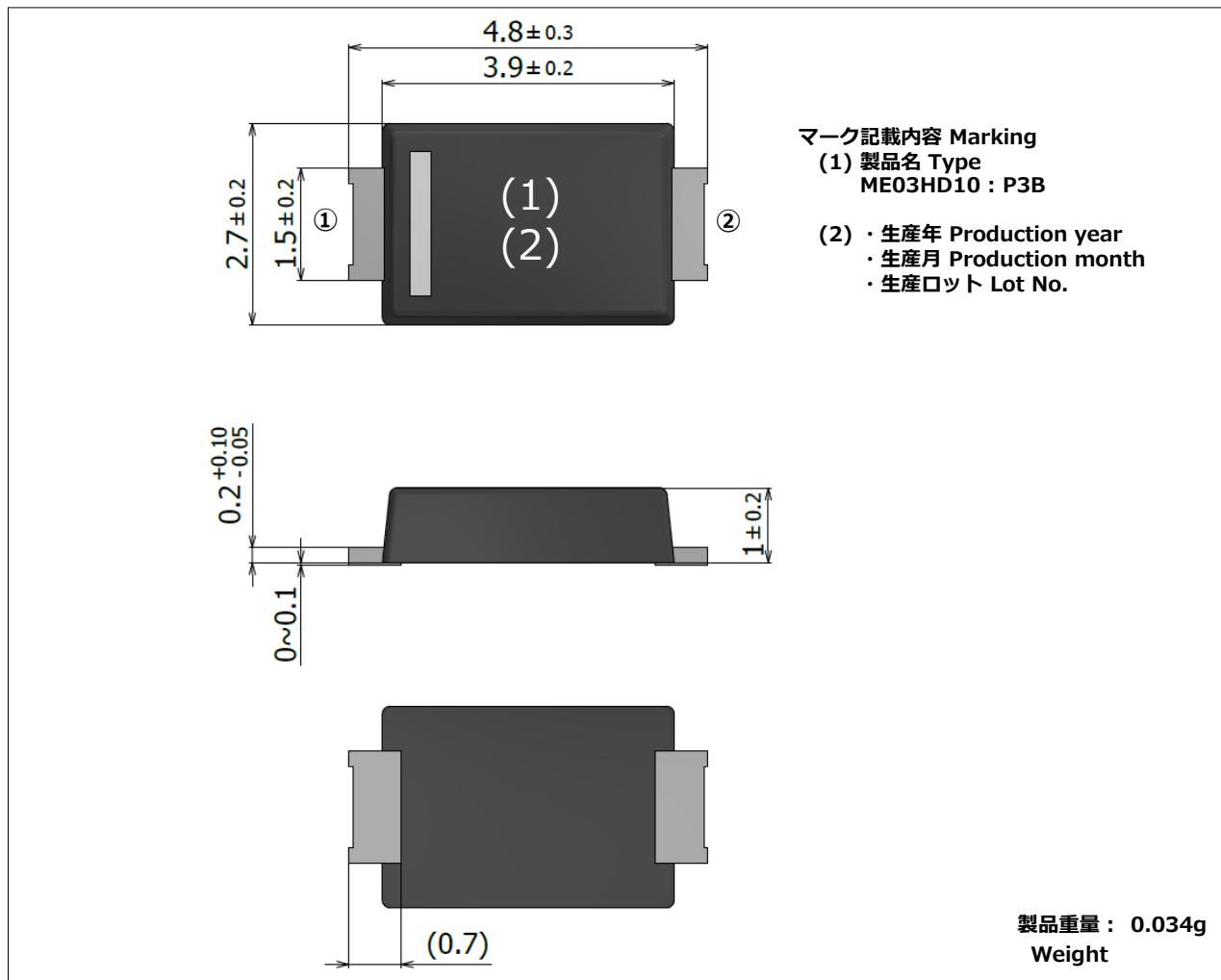
(pF)

JUNCTION CAPACITANCE (pF)

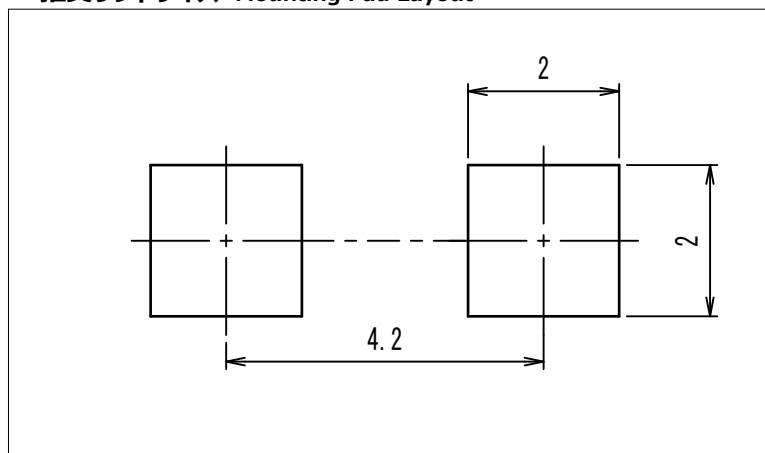


SOD-128

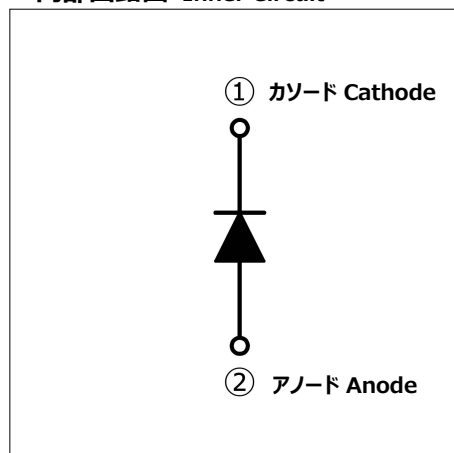
■外形図 Package Outline



■推奨ランドサイズ Mounting Pad Layout



■内部回路図 Inner Circuit



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