

AME03EA045

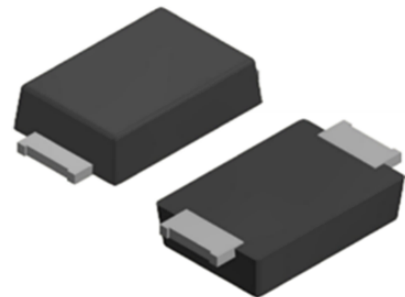
Schottky Barrier Diodes
45V, 3A

Feature

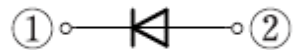
- Trench SBD
- Low V_F
- High Recovery Speed
- RoHS:Yes
- Based on AEC-Q101

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	V_{RRM}		45	V
Average forward current	$I_F(AV)$	Tl=109°C	3	A
Average forward current	$I_F(AV)$		4.71	A
Surge forward current	I_{FSM}	50Hz half sine wave, 1 cycle, Non-repetitive	60	A

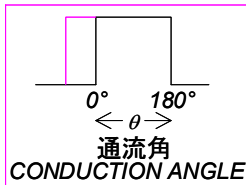
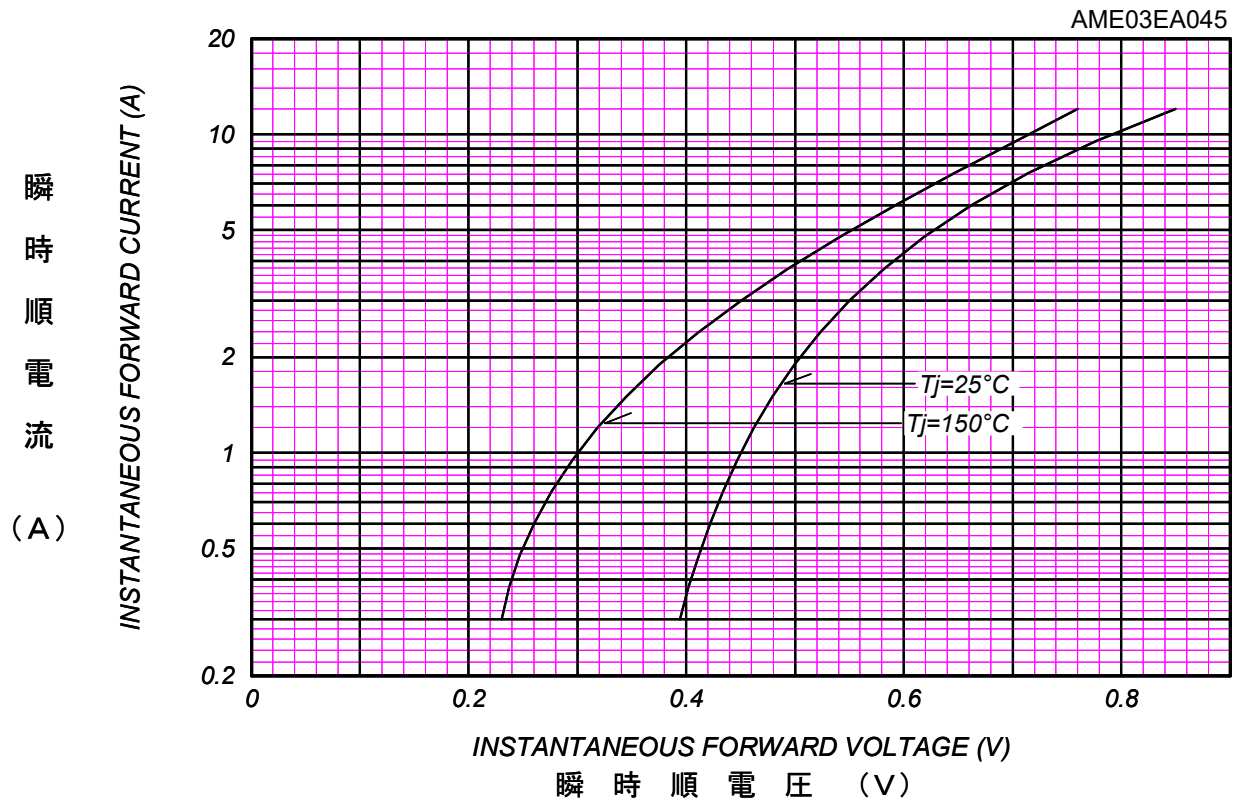
※ :See the original Specifications

Electrical Characteristics

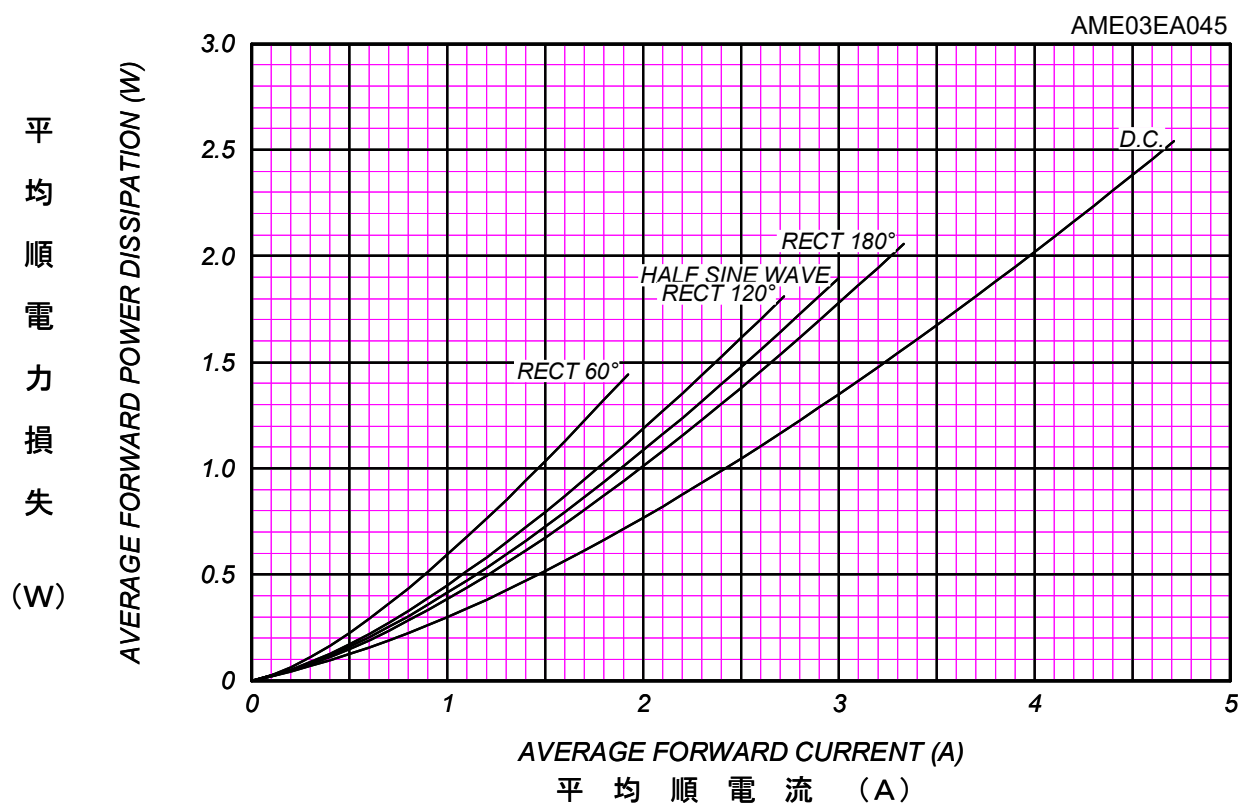
Item	Symbol	Conditions	Ratings			Unit
			MIN	TYP	MAX	
Forward voltage	V_F	IF=3A, Tj=25°C	-	-	0.55	V
Reverse current	I_R	VR=VRRM, Tj=25°C	-	-	0.2	mA
Thermal resistance	Rth(j-l)	Junction to lead	-	-	15	°C/W
Thermal resistance	Rth(j-a)	Junction to ambient (P.C.Board mounted)	-	-	80	°C/W

※ :See the original Specifications

順電圧特性
FORWARD CURRENT VS. VOLTAGE



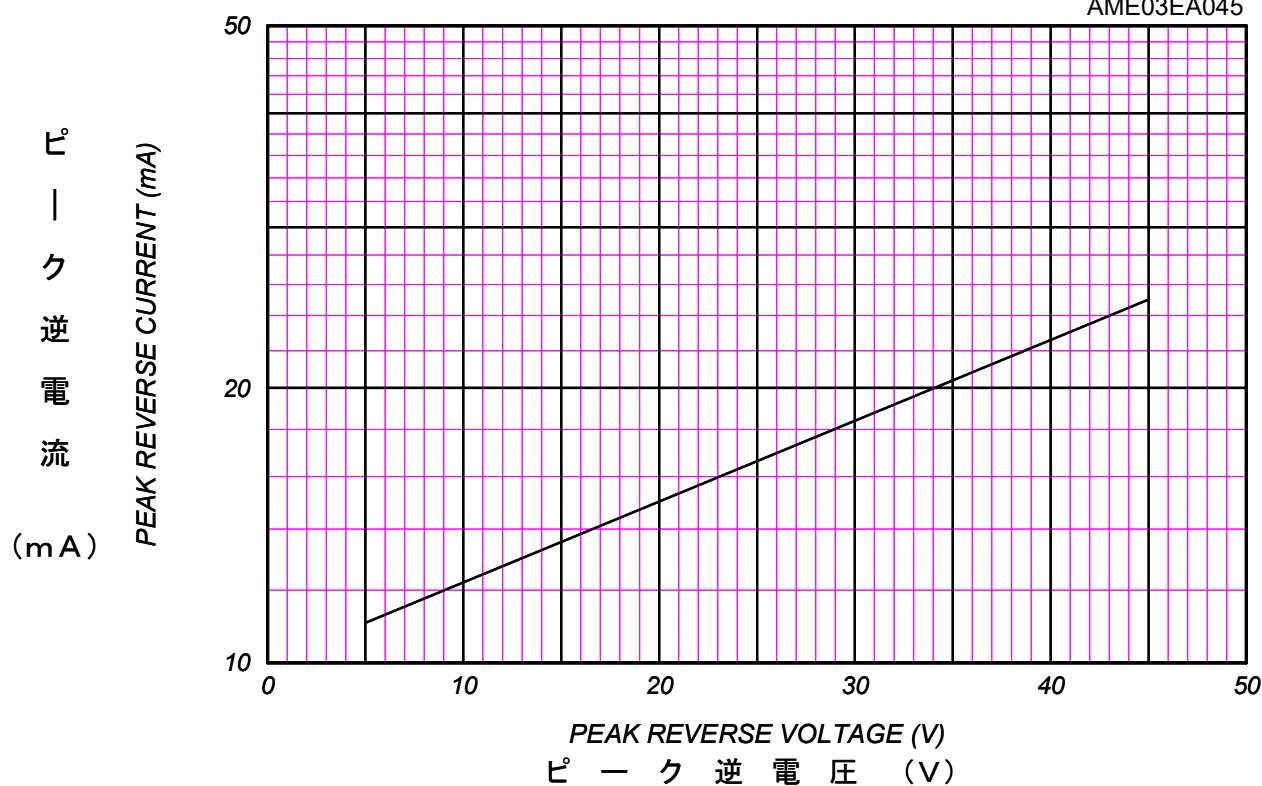
平均順電力損失特性
AVERAGE FORWARD POWER DISSIPATION



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

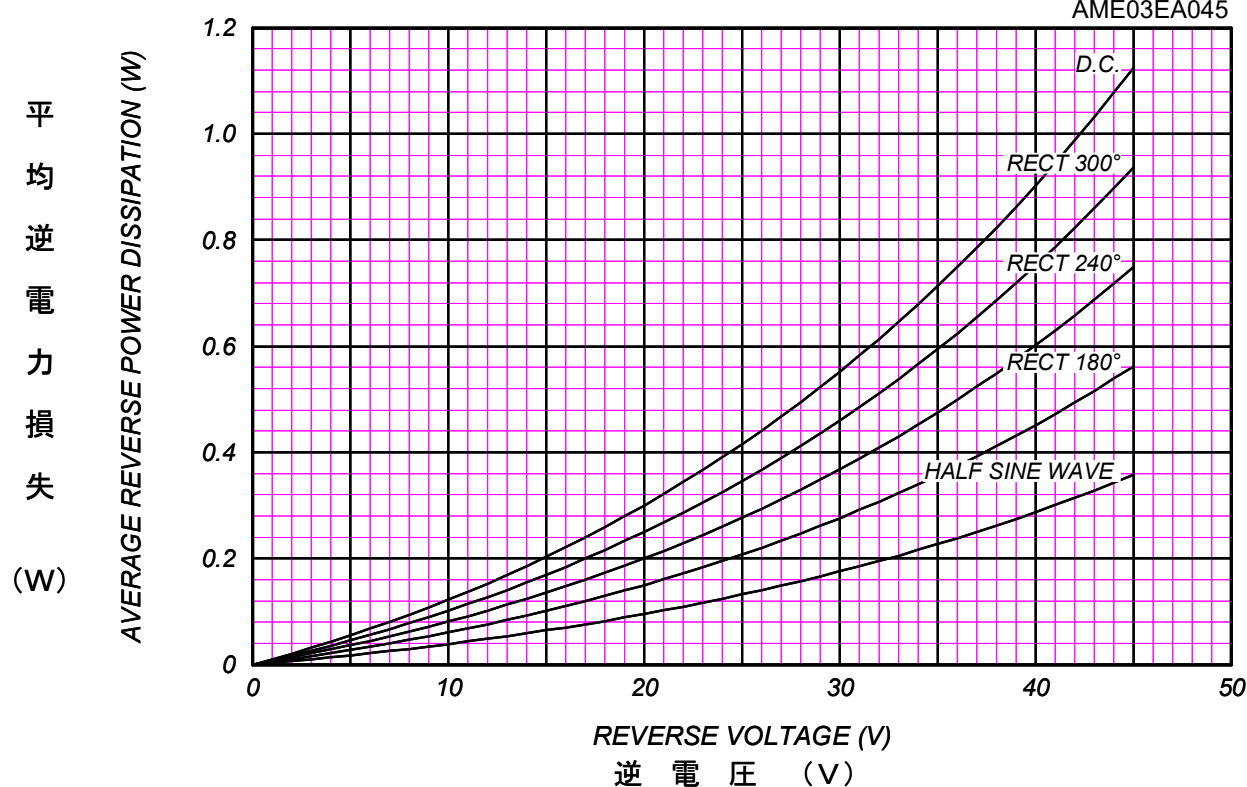
$T_j = 150\text{ }^{\circ}\text{C}$

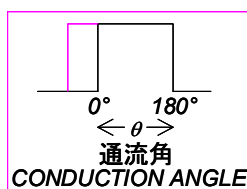
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平均逆電力損失
AVERAGE REVERSE POWER DISSIPATION

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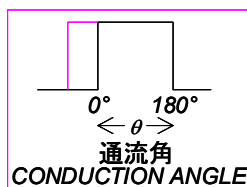
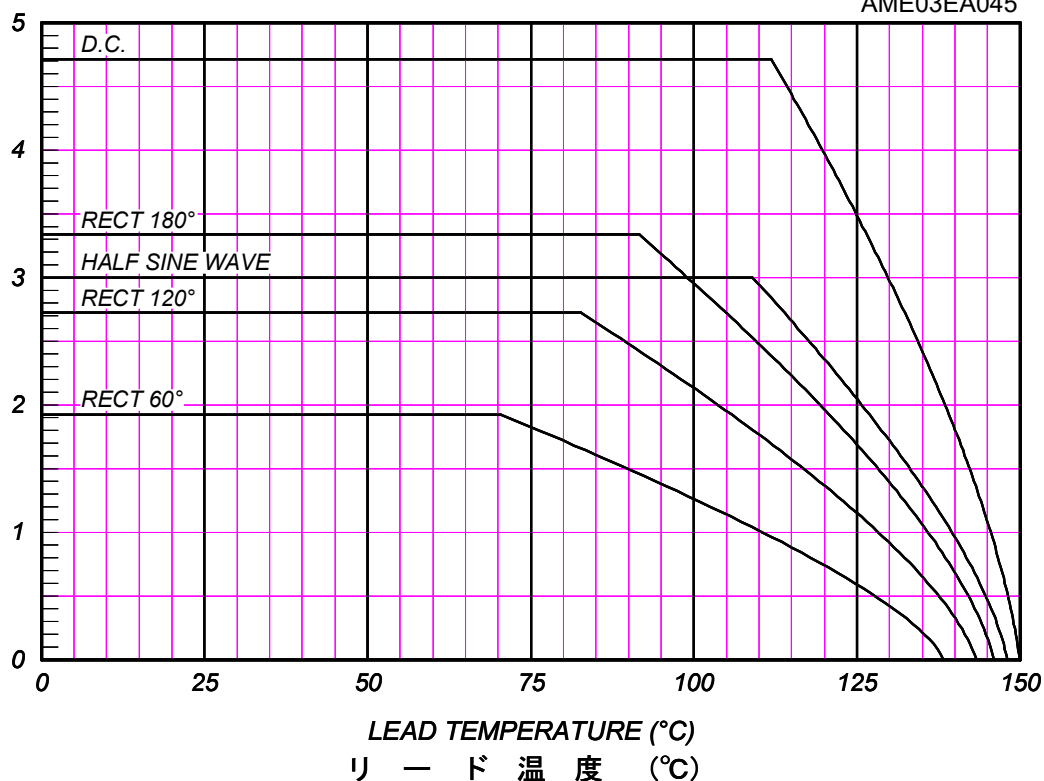


平均順電流－リード温度定格
AVERAGE FORWARD CURRENT VS. LEAD TEMPERATURE

$V_{RM}=20V$

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平均順電流
(A)
AVERAGE FORWARD CURRENT (A)

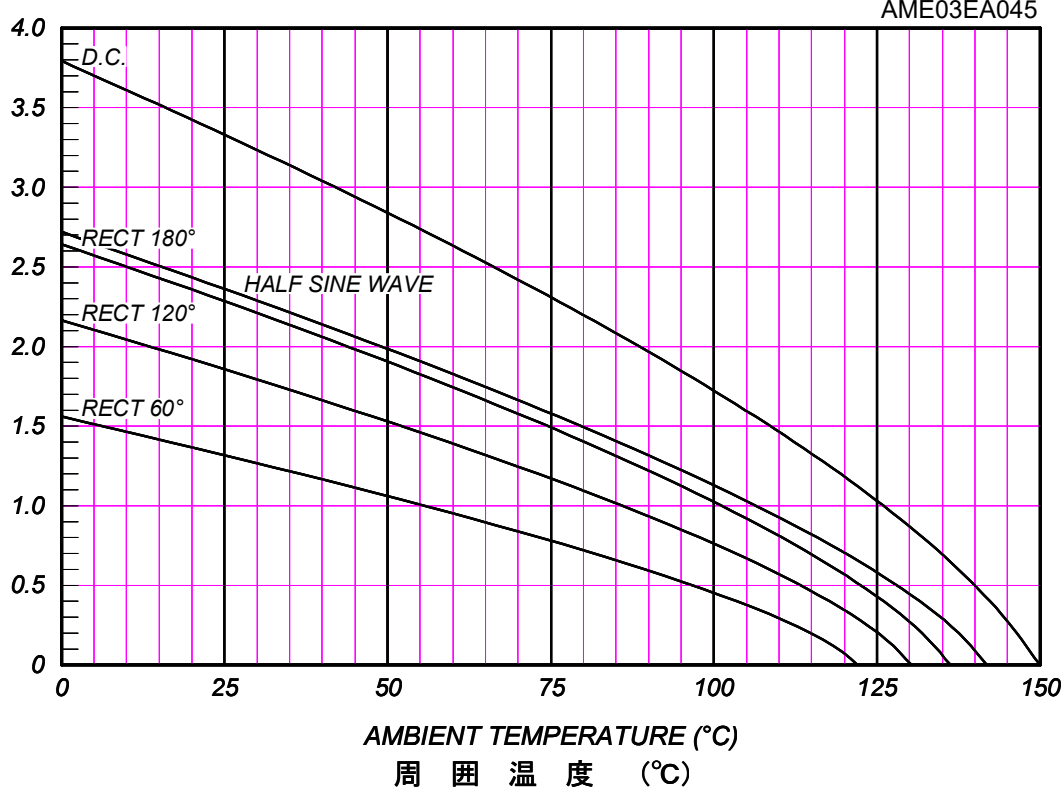


平均順電流－周囲温度定格
AVERAGE FORWARD CURRENT VS. AMBIENT TEMPERATURE

Glass-Epoxy Substrate Mounted (Soldering Land=2×2mm, Both side), $V_{RM}=20V$

AME03EA045

平均順電流
(A)
AVERAGE FORWARD CURRENT (A)



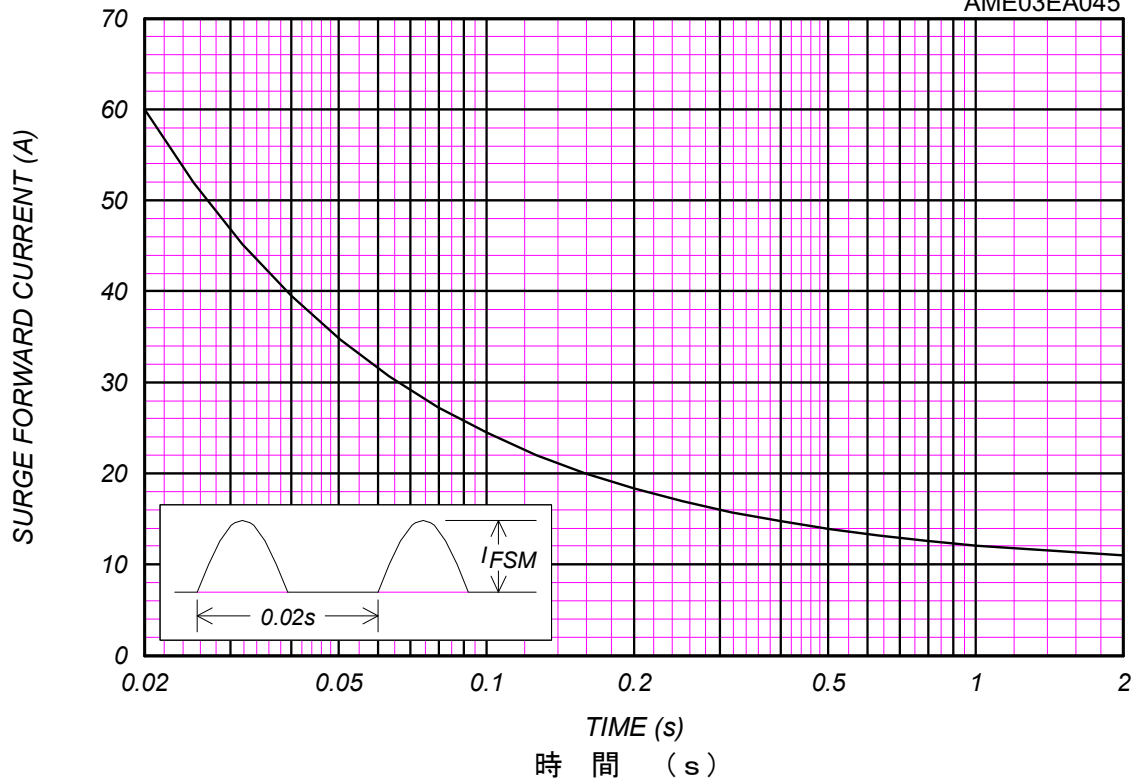
サージ順電流定格 SURGE CURRENT RATINGS

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

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(A)



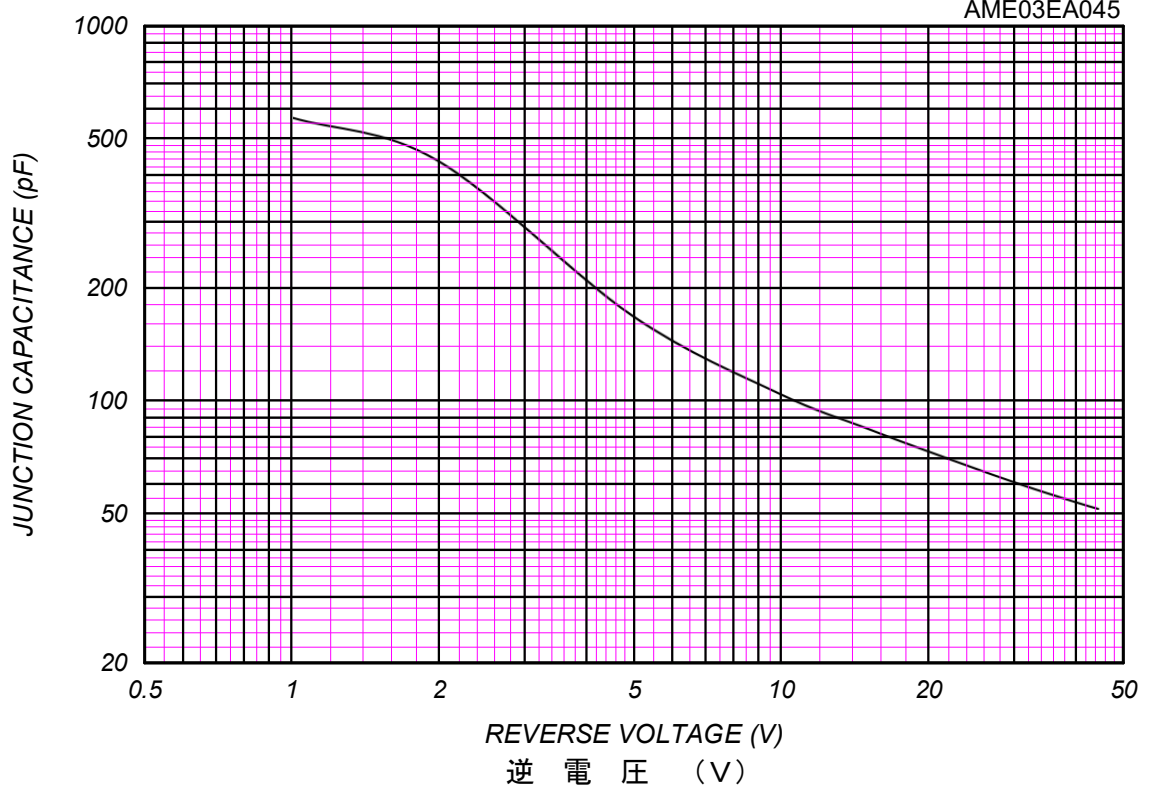
接合容量特性 JUNCTION CAPACITANCE VS. REVERSE VOLTAGE

Tj=25°C, Vm=20mV_{RMS}, f=100kHz, Typical Value

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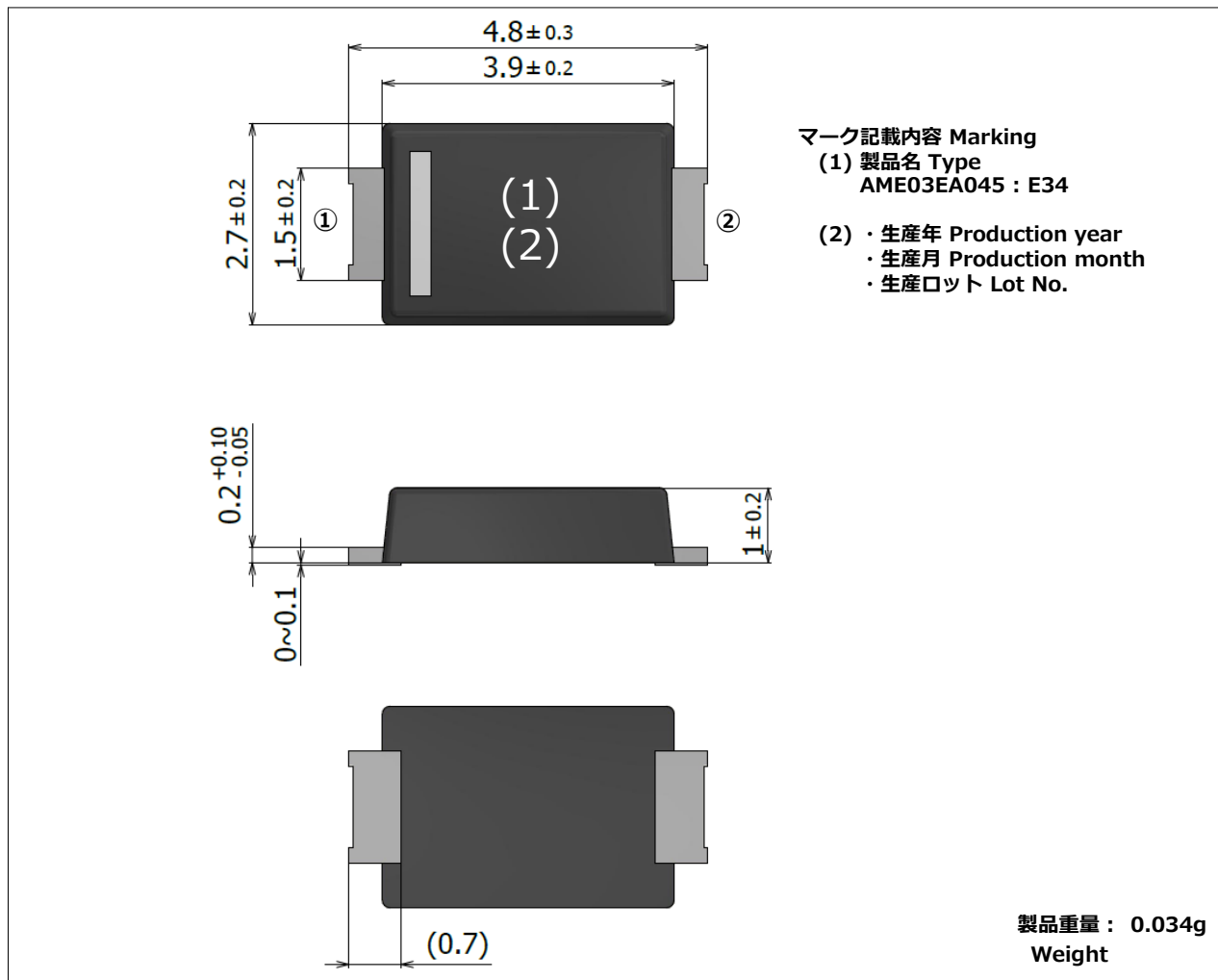
接
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(pF)

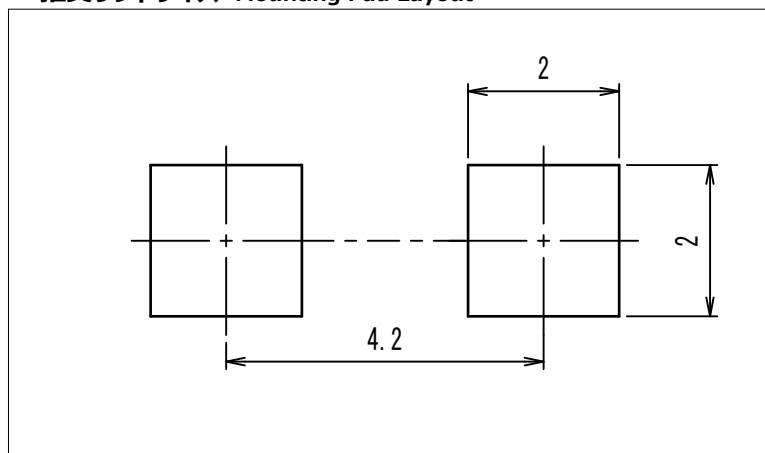


SOD-128

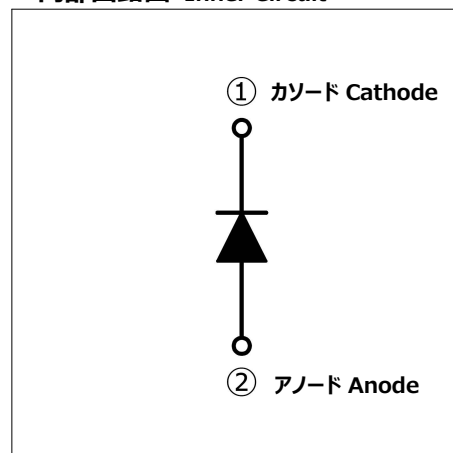
■外形図 Package Outline



■推奨ランドサイズ Mounting Pad Layout



■内部回路図 Inner Circuit



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