ShinDengen

AMC03DA40

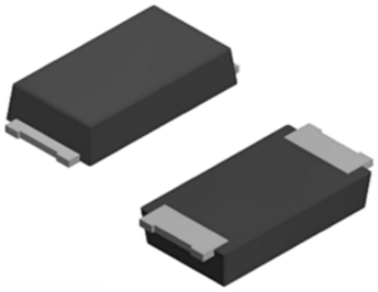
General Rectifying Diodes
400V, 3A

Feature

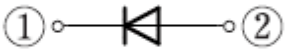
- Low V_F
- Low I_R
- RoHS:Yes
- Based on AEC-Q101

OUTLINE

Package (House Name): nSMC_FL



Equivalent circuit



Absolute Maximum Ratings

Item	Symbol	Conditions	Ratings	Unit
Storage temperrature	T_{stg}		-55 to 150	°C
Junction temperature	T_j		-55 to 150	°C
Repetitive peak reverse voltage	V_{RRM}		400	V
Average forward current	$I_{F(AV)}$	Tl=101°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	80	A

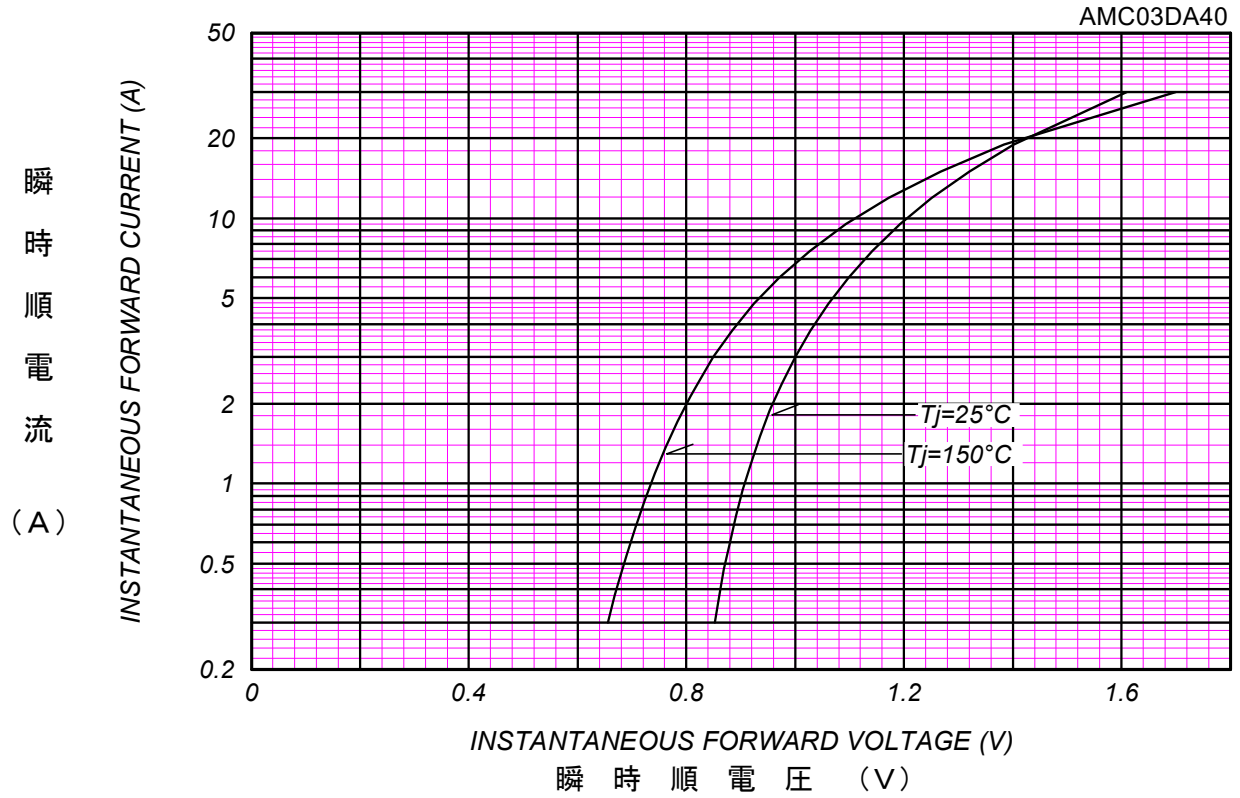
※ ：See the original Specifications

Electrical Characteristics

Item	Symbol	Conditions	Ratings			Unit
			MIN	TYP	MAX	
Forward voltage	V_F	IF=3A, Tj=25°C	-	-	1	V
Reverse current	I_R	VR=VRRM, Tj=25°C	-	-	10	µA
Thermal resistance	$R_{th(j-l)}$	Junction to lead	-	-	8	°C/W
Thermal resistance	$R_{th(j-a)}$	Junction to ambient (P.C.Board mounted)	-	-	70	°C/W

※ ：See the original Specifications

順 電 圧 特 性
FORWARD CURRENT VS. VOLTAGE



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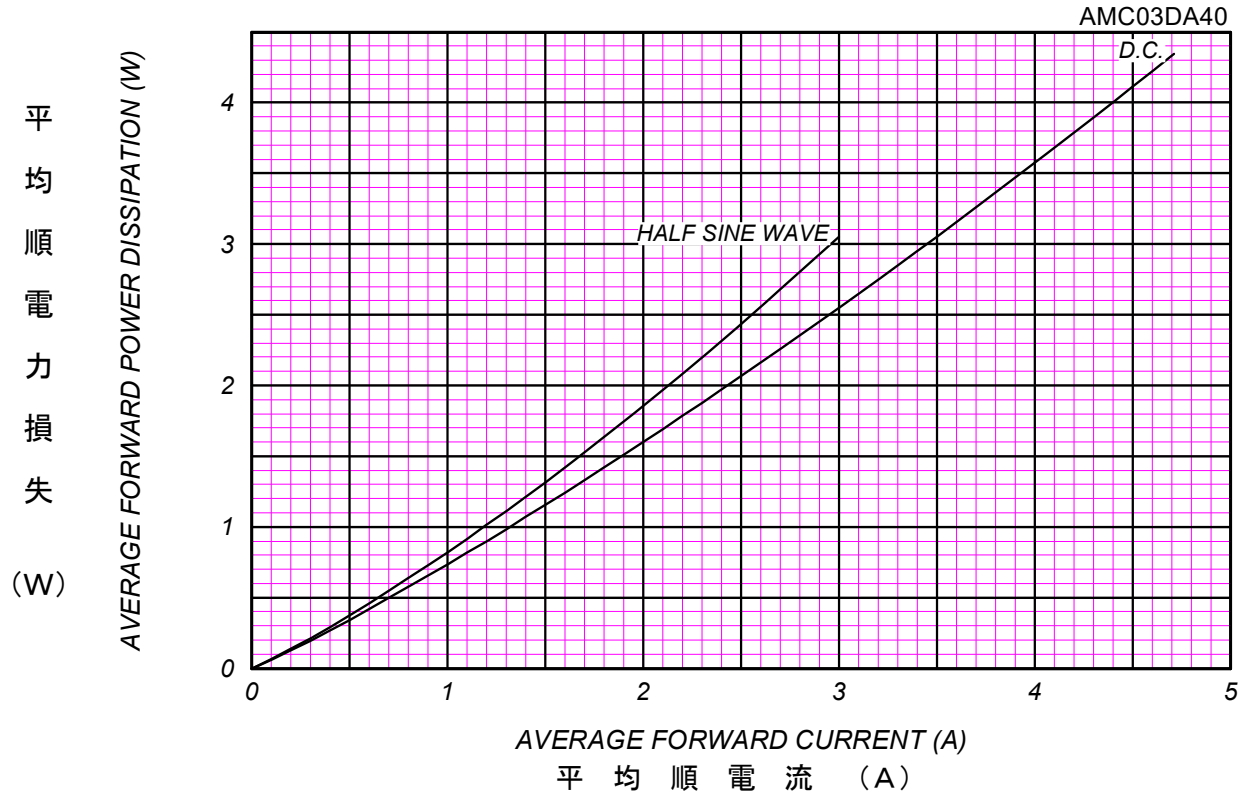
AVERAGE FORWARD POWER DISSIPATION



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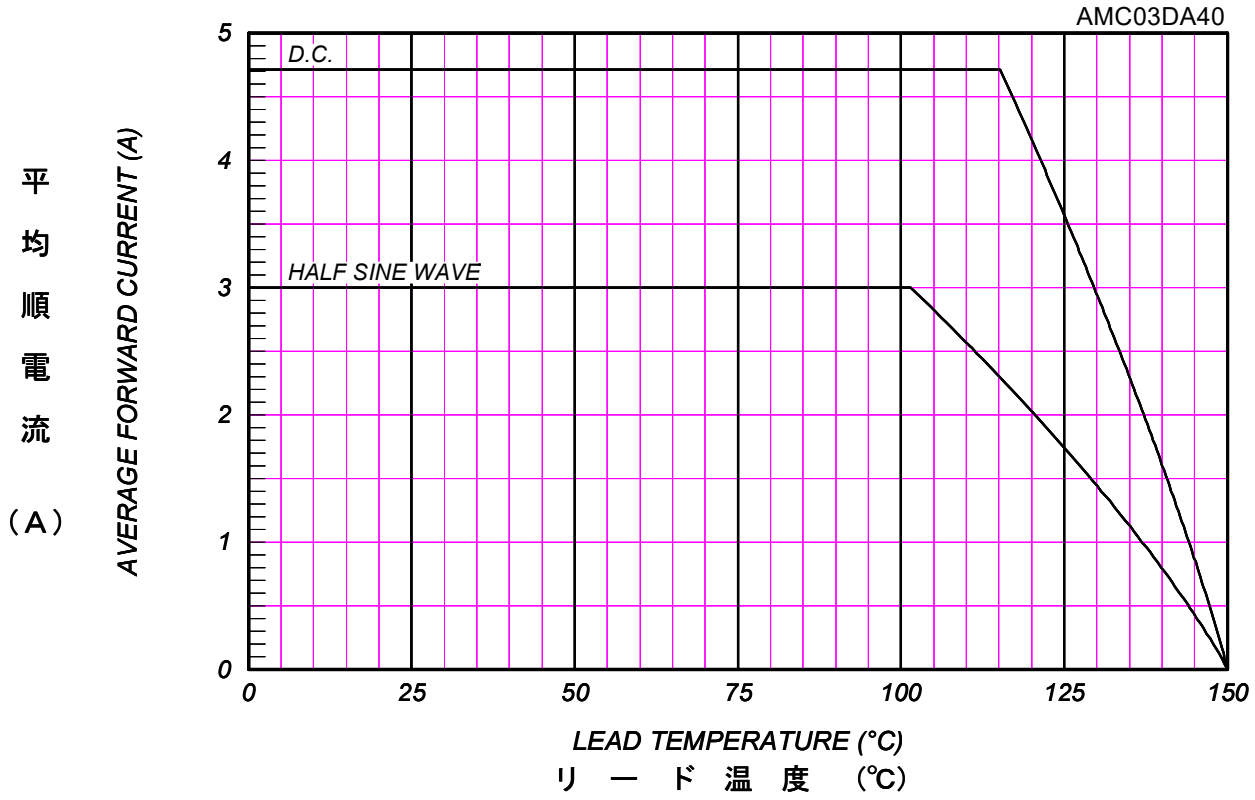
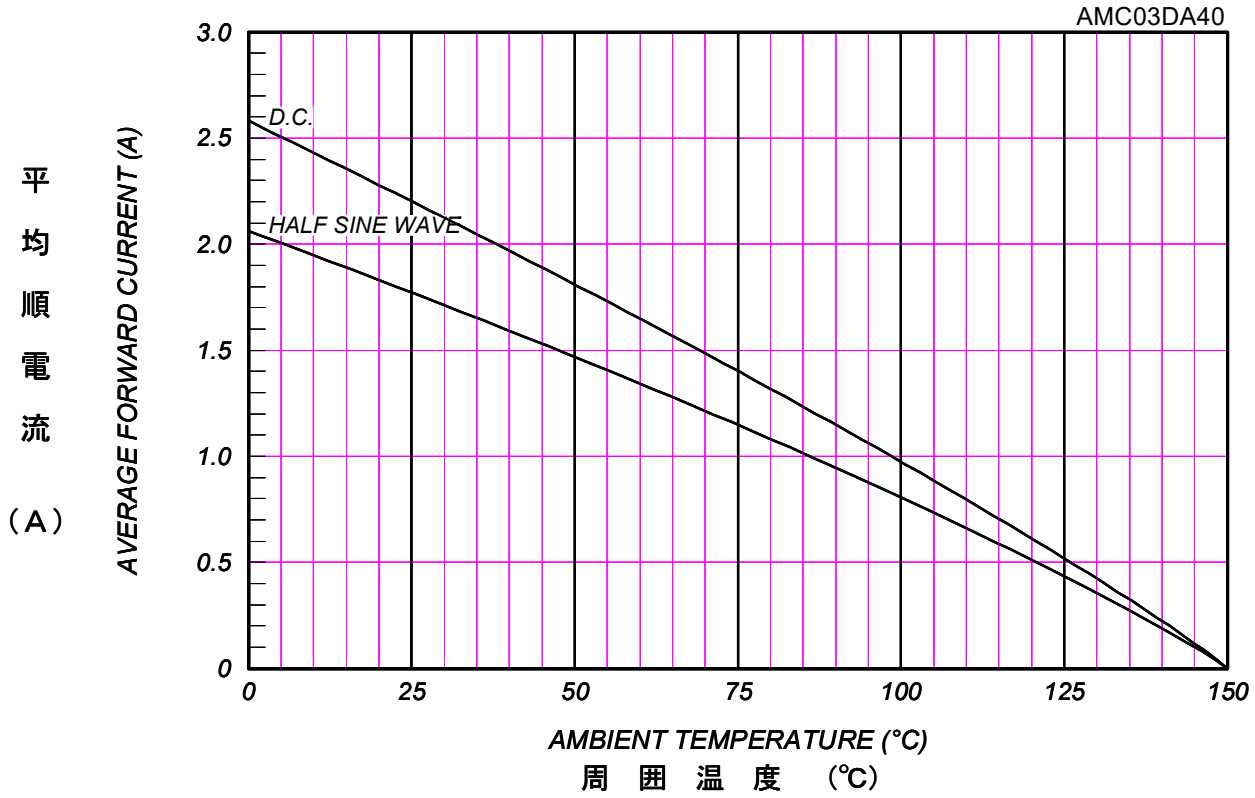
AVERAGE FORWARD CURRENT VS. LEAD TEMPERATURE



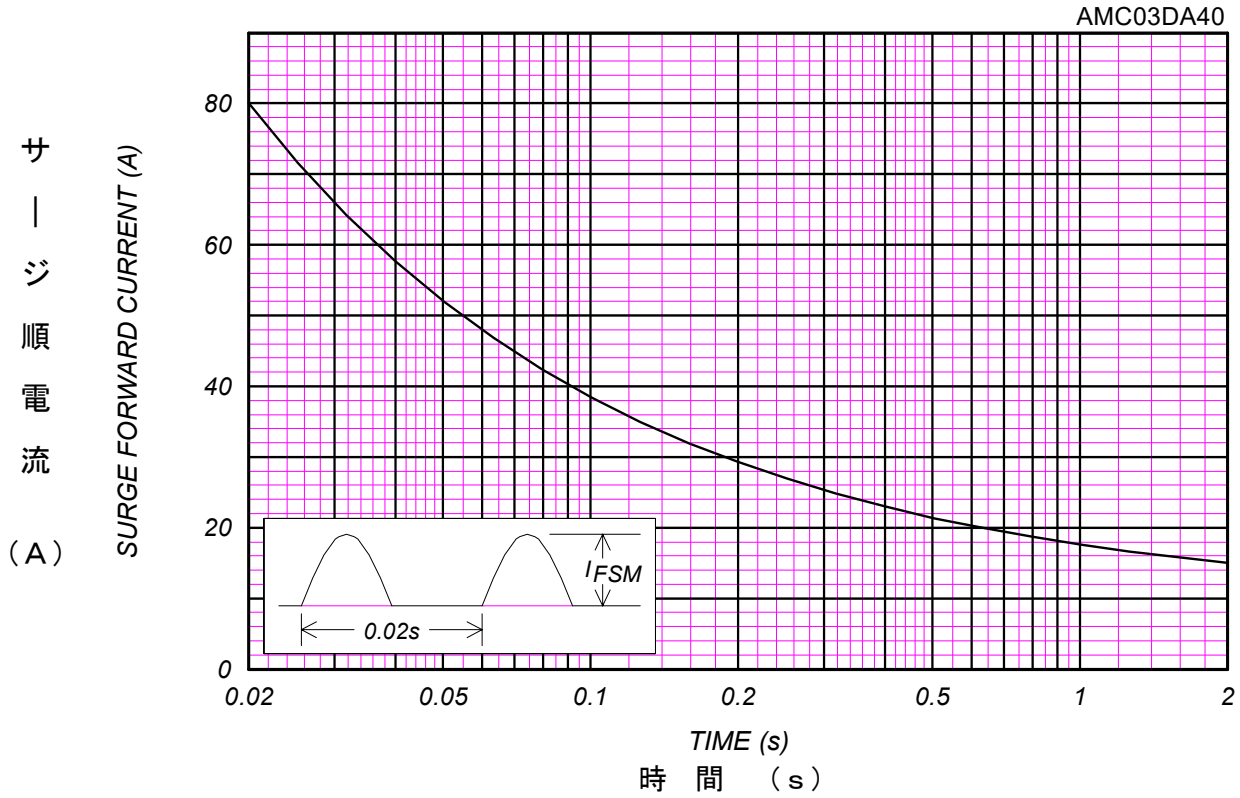
平 均 順 電 流 ー 周 囲 温 度 定 格
AVERAGE FORWARD CURRENT VS. AMBIENT TEMPERATURE

Glass-Epoxy Substrate Mounted(Soldering Land=2×3.5mm, Both side)



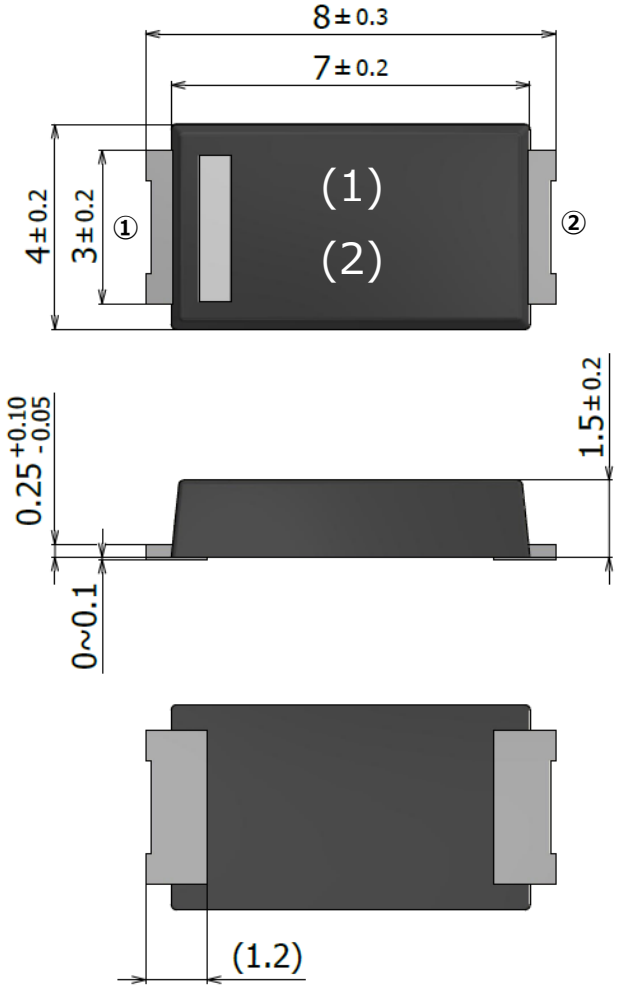
サ　ー　ジ　順　電　流　定　格
SURGE CURRENT RATINGS

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



nSMC_FL

■外形図 Package Outline

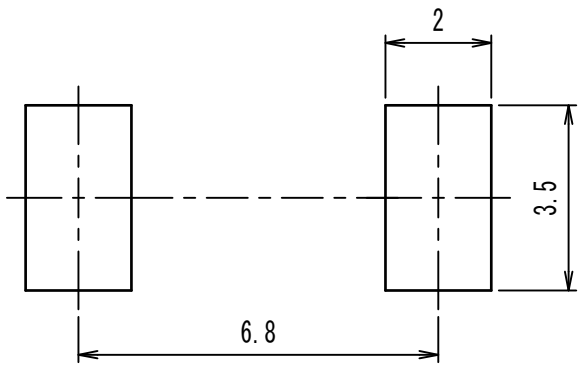


マーク記載内容 Marking
(1) 製品名 Type
AMC03DA40 : D3H

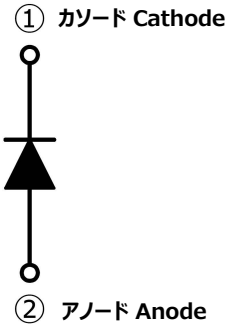
(2) ・生産年 Production year
・生産月 Production month
・生産ロット Lot No.

製品重量： 0.13g
Weight

■推奨ランドサイズ Mounting Pad Layout



■内部回路図 Inner Circuit



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