

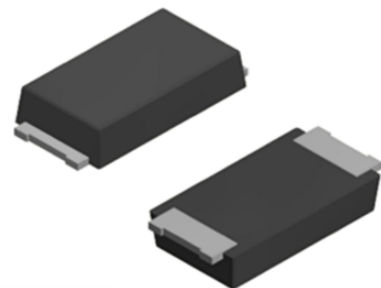
MC05DA20
General Rectifying Diodes
200V, 5A

Feature

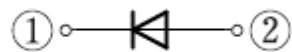
- Low V_F
- Low I_R
- RoHS:Yes

OUTLINE

Package (House Name): nSMC_FL



Equivalent circuit



Absolute Maximum Ratings

Item	Symbol	Conditions	Ratings	Unit
Storage temperature	T_{stg}		-55 to 150	°C
Junction temperature	T_j		-55 to 150	°C
Repetitive peak reverse voltage	V_{RRM}		200	V
Average forward current	$I_{F(AV)}$	$T_l=73^{\circ}C$	5	A
Average forward current	$I_{F(AV)}$		7.85	A
Surge forward current	I_{FSM}	50Hz half sine wave, 1 cycle, Non-repetitive	130	A

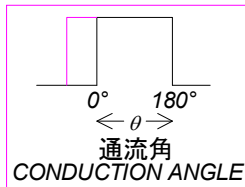
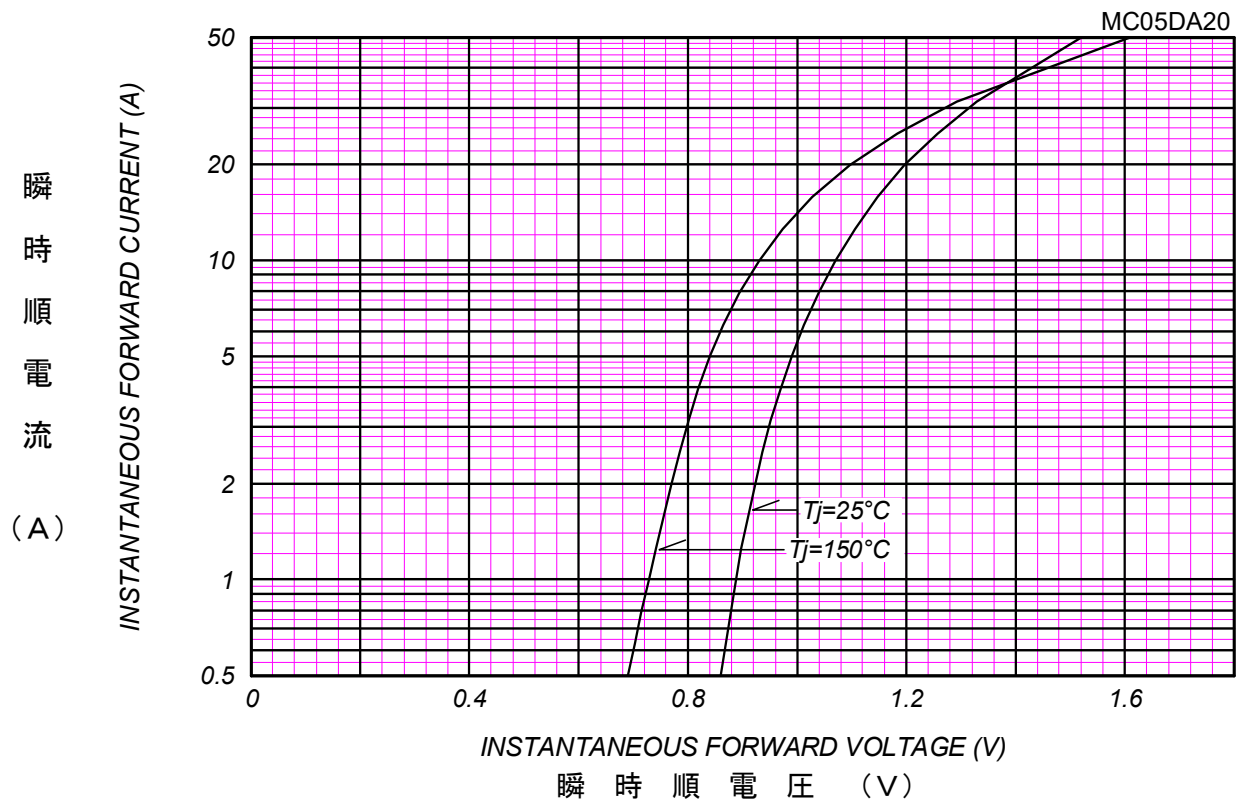
※ :See the original Specifications

Electrical Characteristics

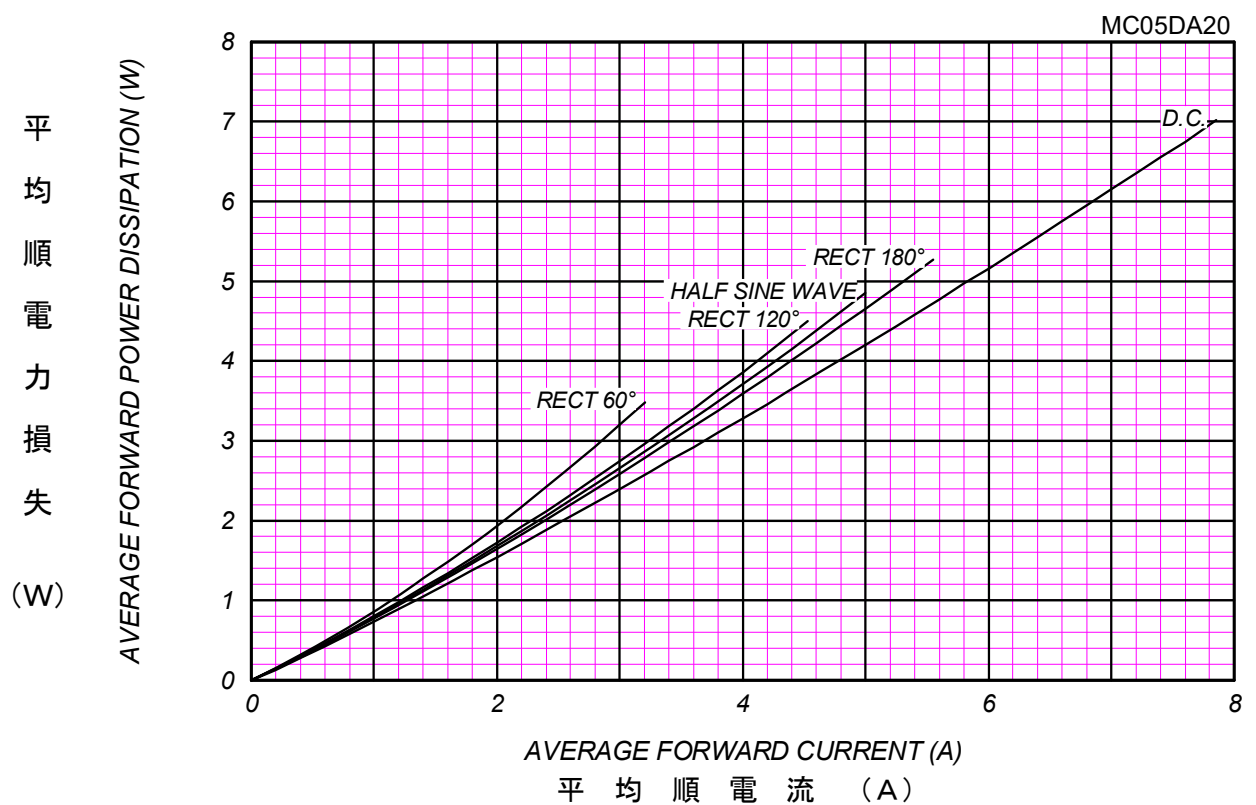
Item	Symbol	Conditions	Ratings			Unit
			MIN	TYP	MAX	
Forward voltage	V_F	$I_F=5A, T_j=25^{\circ}C$	-	-	0.99	V
Reverse current	I_R	$V_R=V_{RRM}, T_j=25^{\circ}C$	-	-	10	μA
Thermal resistance	$R_{th(j-l)}$	Junction to lead	-	-	8	°C/W
Thermal resistance	$R_{th(j-a)}$	Junction to ambient (P.C.Board mounted)	-	-	70	°C/W

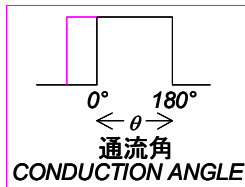
※ :See the original Specifications

順電圧特性
FORWARD CURRENT VS. VOLTAGE

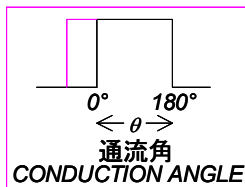
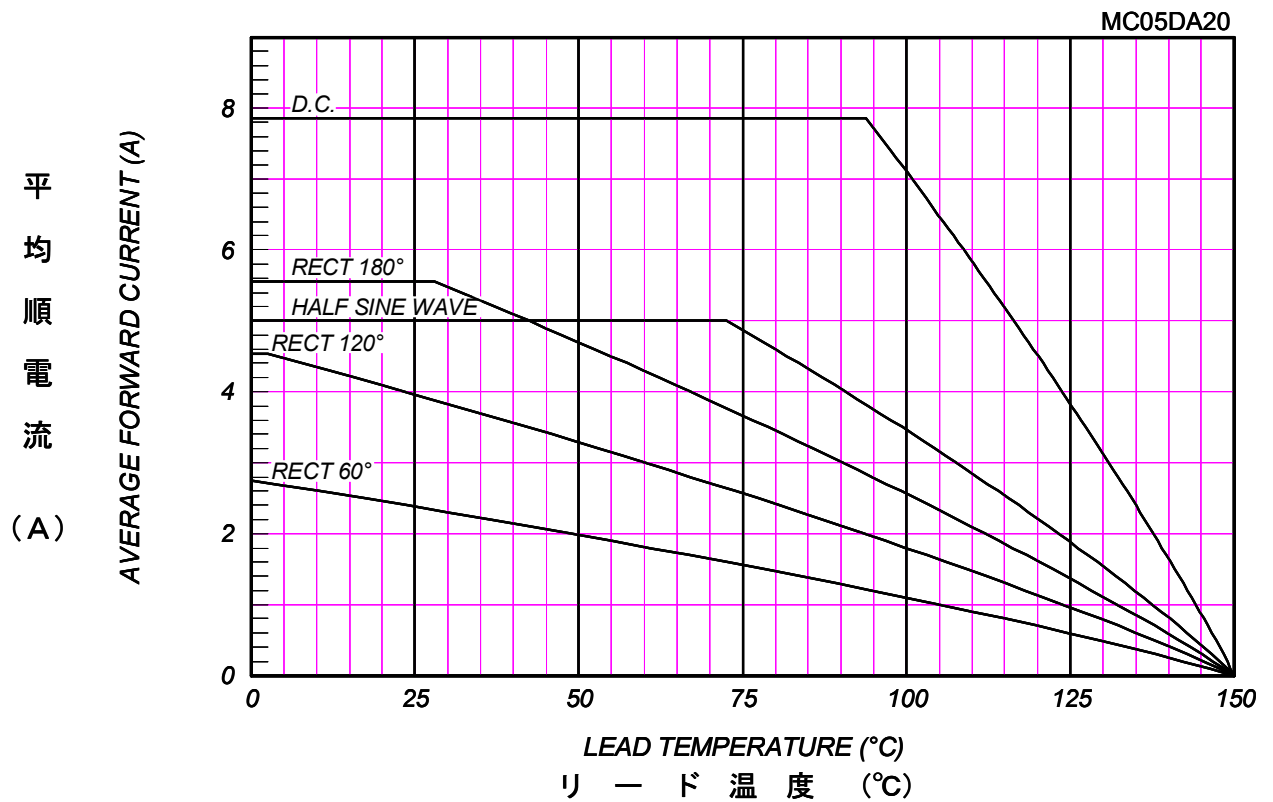


平均順電力損失特性
AVERAGE FORWARD POWER DISSIPATION



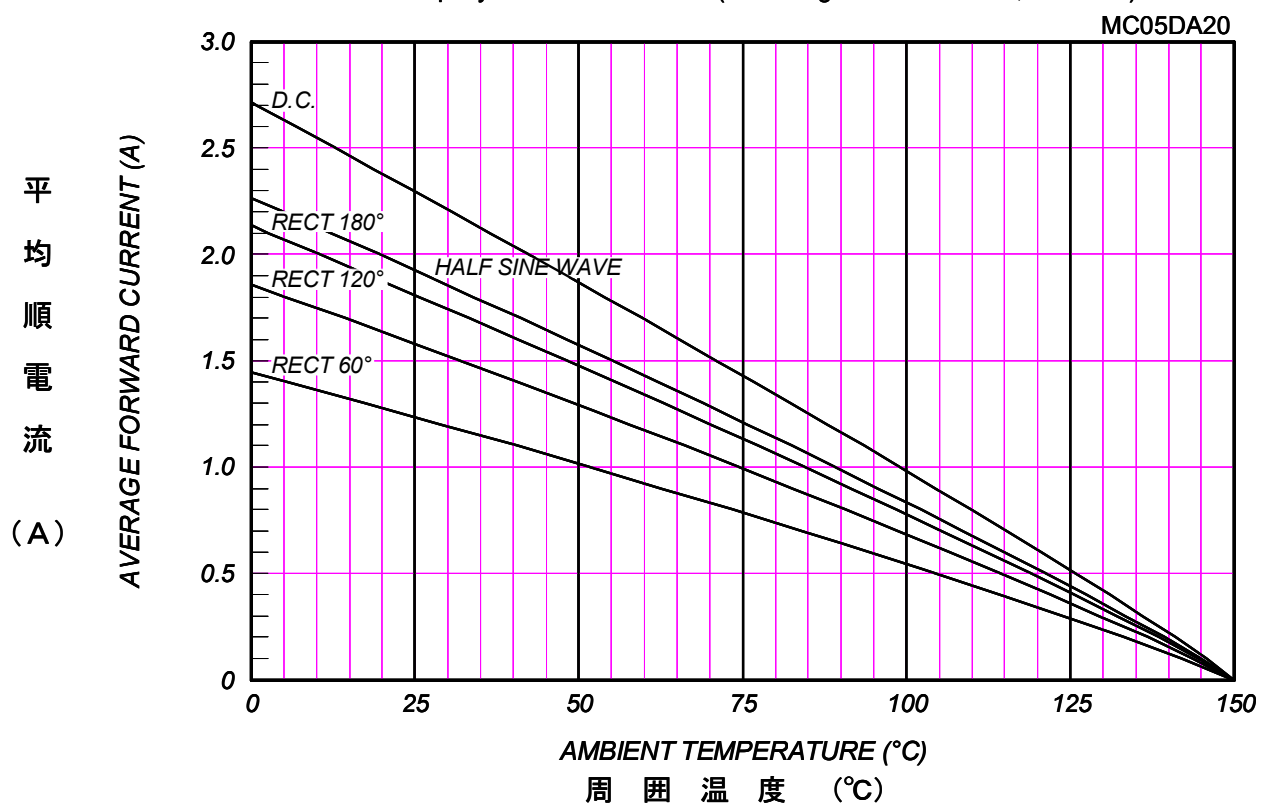


平均順電流－リード温度定格
AVERAGE FORWARD CURRENT VS. LEAD TEMPERATURE



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

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



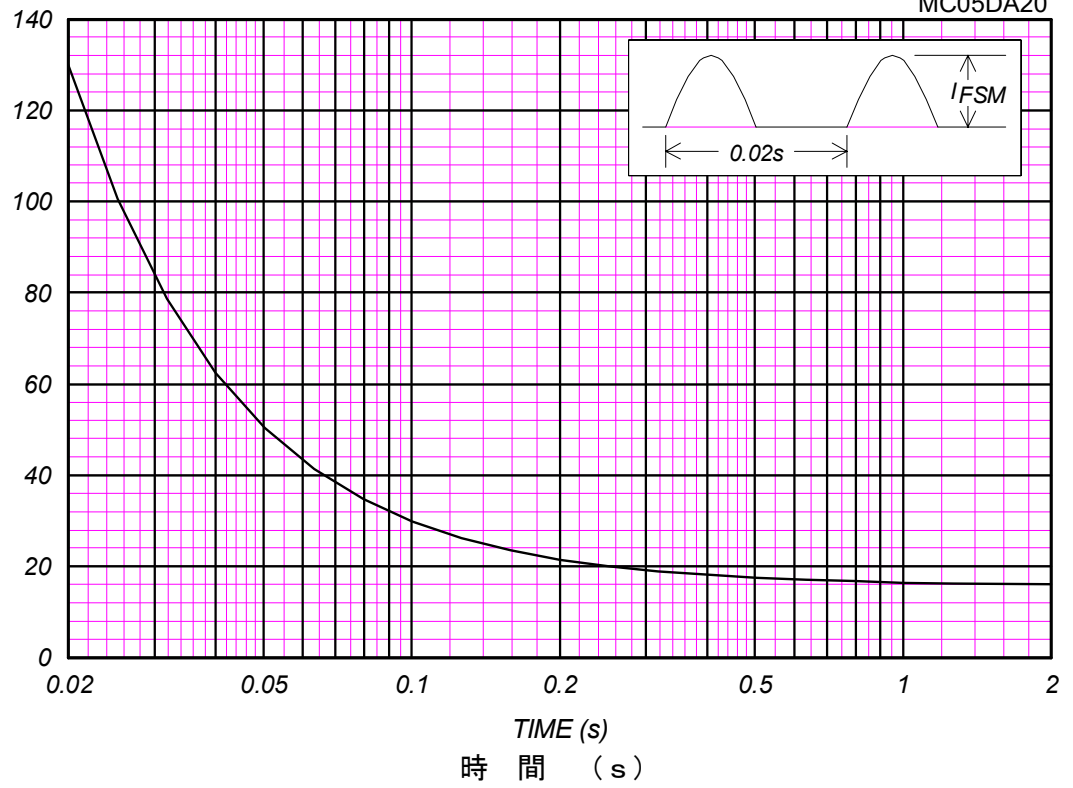
サージ順電流定格 SURGE CURRENT RATINGS

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

MC05DA20

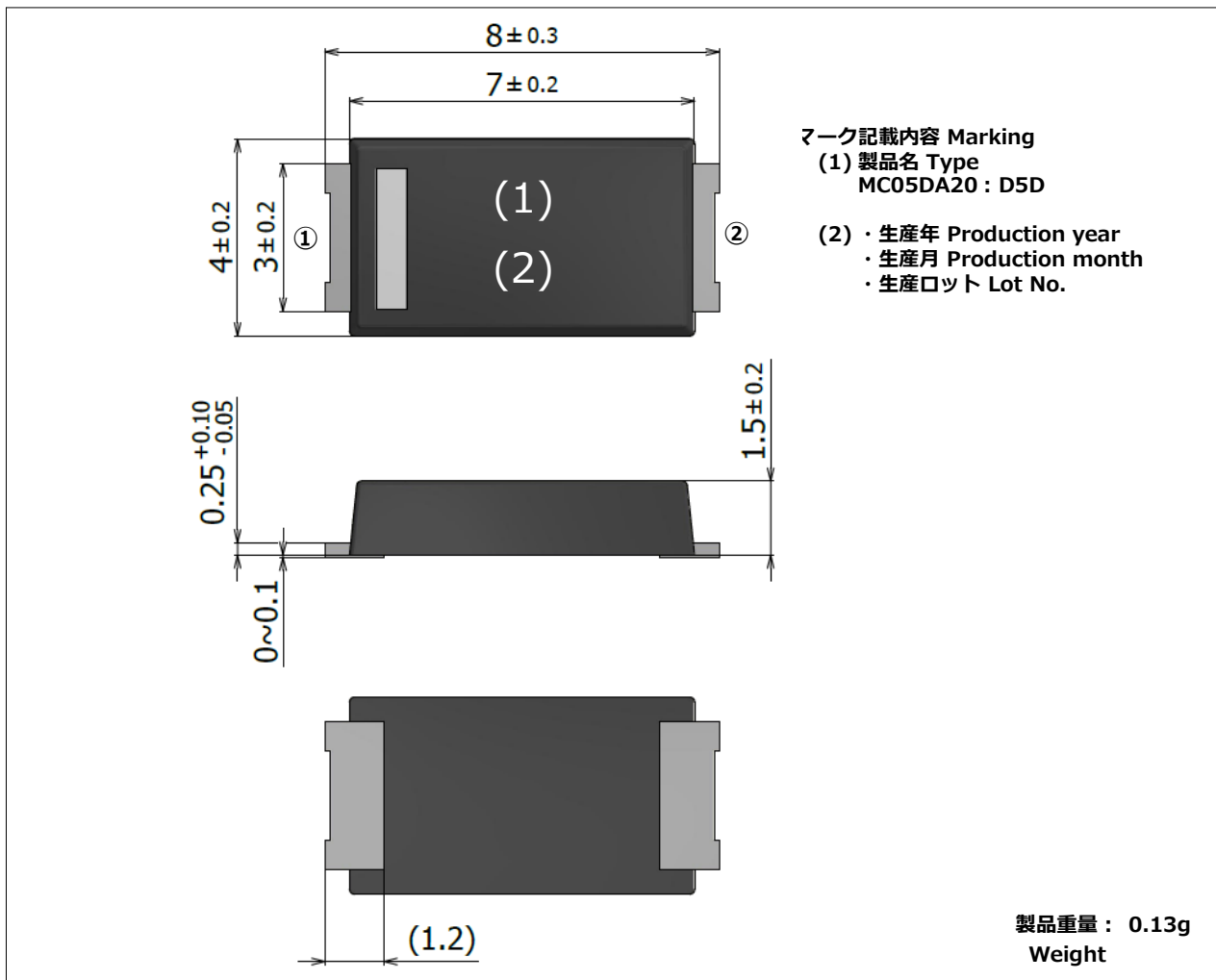
サ
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SURGE FORWARD CURRENT (A)

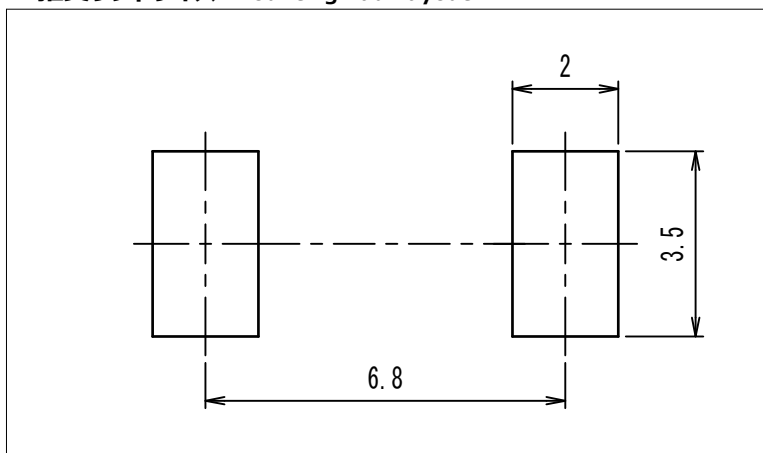


nSMC_FL

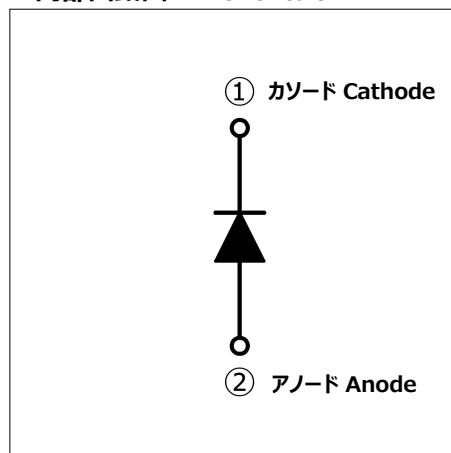
■ 外形図 Package Outline



■ 推奨ランドサイズ Mounting Pad Layout



■ 内部回路図 Inner Circuit



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