

MPP5FA20

Fast Recovery Diodes

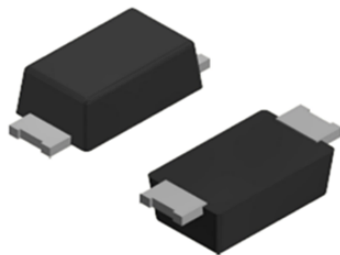
200V, 0.5A

Feature

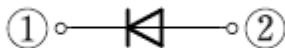
- Low I_R
- Fast Recovery Time
- Soft Recovery
- RoHS:Yes

OUTLINE

Package (House Name): SOD-123FL



Equivalent circuit



Absolute Maximum Ratings

Item	Symbol	Conditions	Ratings	Unit
Storage temperrature	Tstg		-55 to 150	°C
Junction temperature	Tj		-55 to 150	°C
Repetitive peak reverse voltage	V_{RRM}		200	V
Average forward current	$I_F(AV)$	Tl=133°C	0.5	A
Surge forward current	I_{FSM}	50Hz half sine wave, 1 cycle, Non-repetitive	20	A

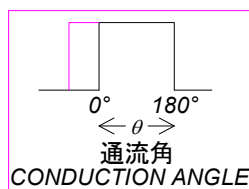
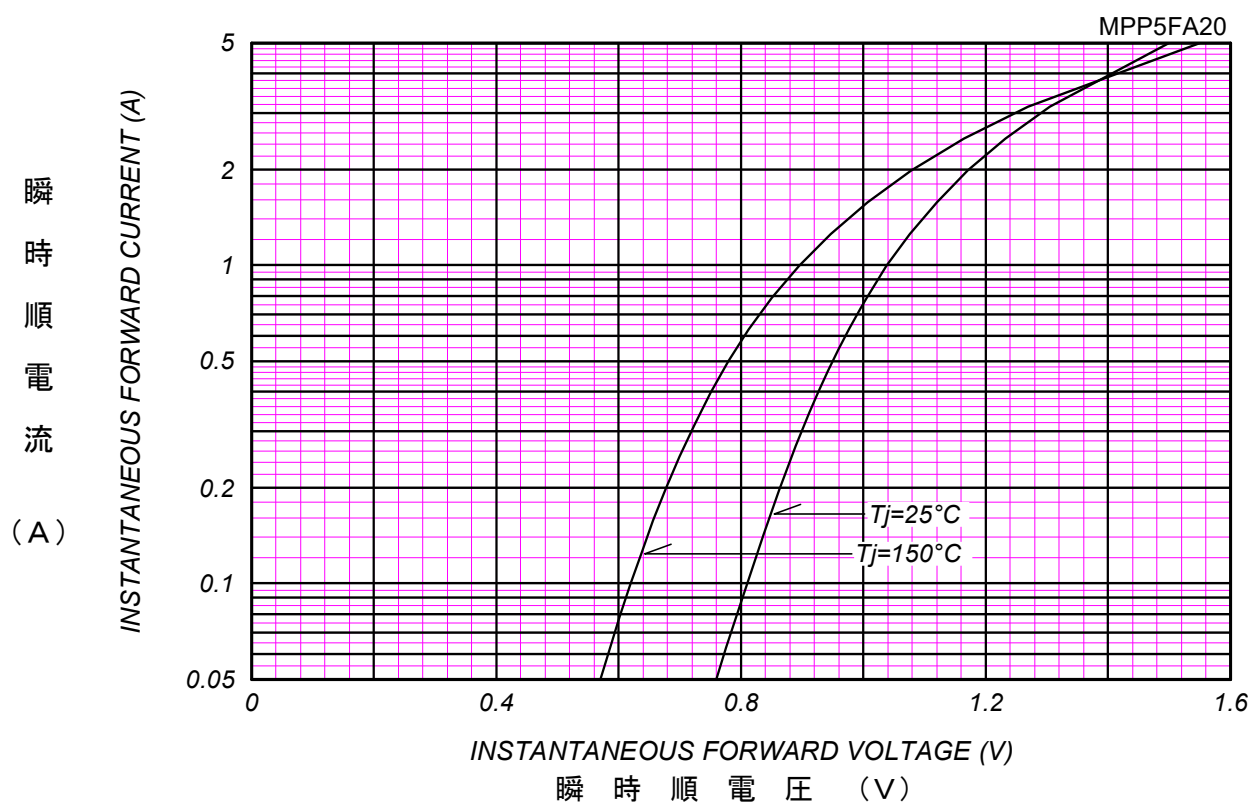
※ :See the original Specifications

Electrical Characteristics

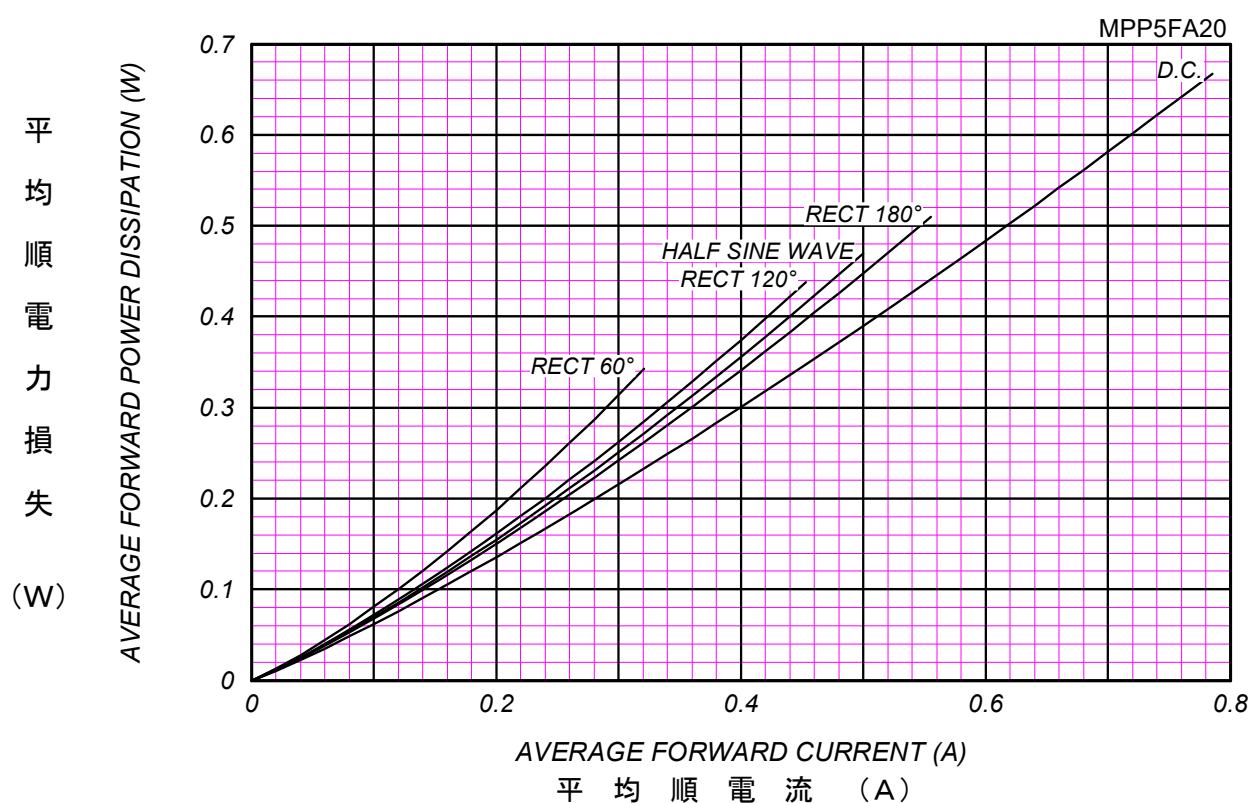
Item	Symbol	Conditions	Ratings			Unit
			MIN	TYP	MAX	
Forward voltage	V_F	IF=0.5A, Tj=25°C	-	-	0.95	V
Reverse current	I_R	VR=VRRM, Tj=25°C	-	-	10	μA
Reverse recovery time	trr	IF=0.5A, Tj=25°C, -di/dt=50A/us	-	-	30	ns
Thermal resistance	Rth(j-l)	Junction to lead	-	-	25	°C/W
Thermal resistance	Rth(j-a)	Junction to ambient (P.C.Board mounted)	-	-	300	°C/W

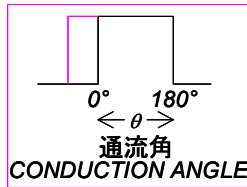
※ :See the original Specifications

順電圧特性 FORWARD CURRENT VS. VOLTAGE

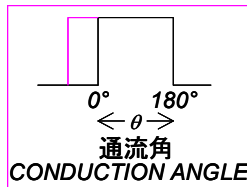
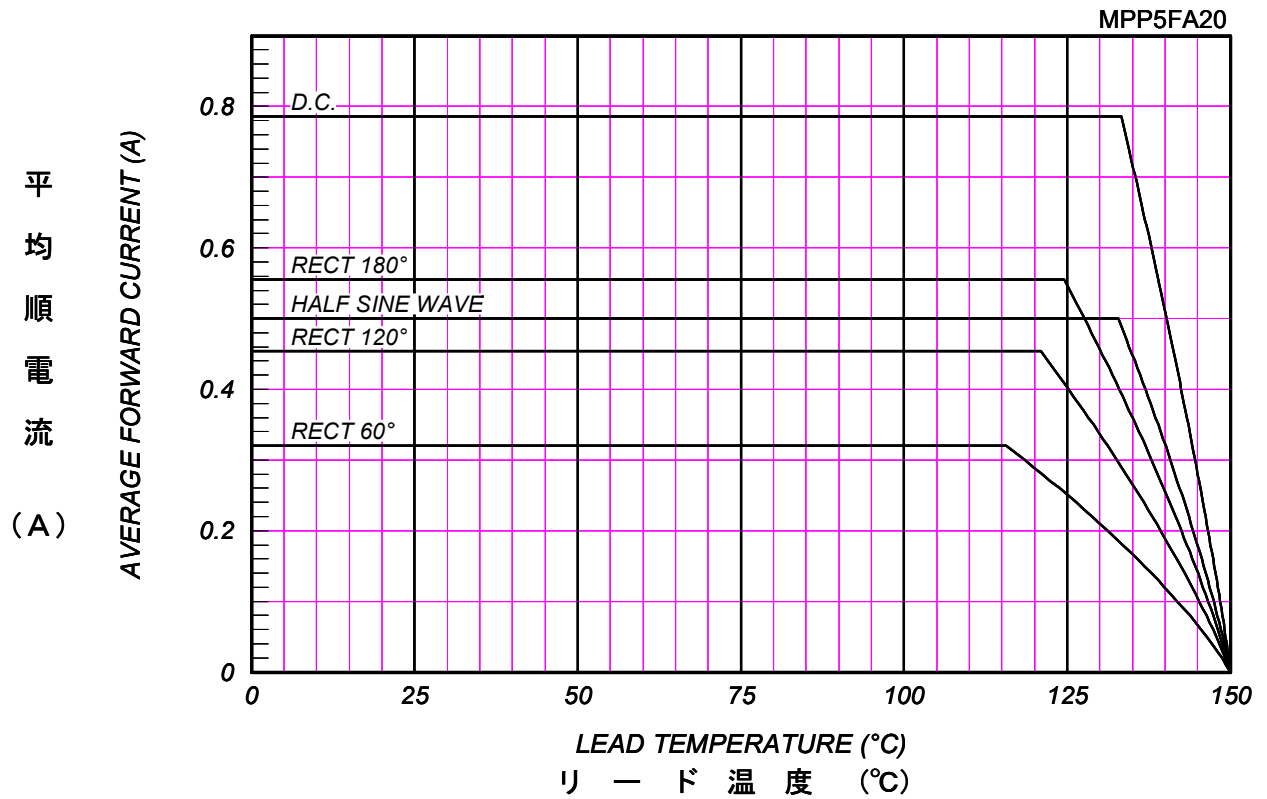


平均順電力損失特性 AVERAGE FORWARD POWER DISSIPATION



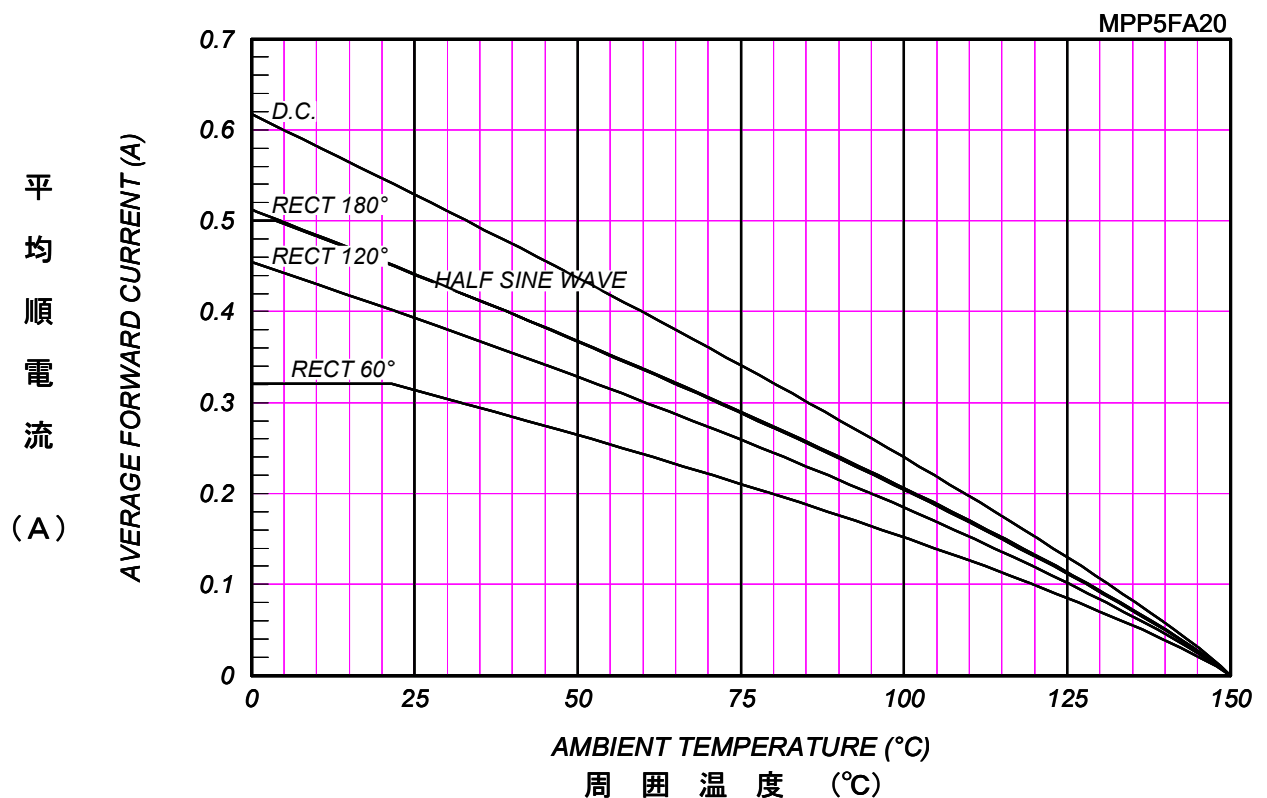


平均順電流－リード温度定格
AVERAGE FORWARD CURRENT VS. LEAD TEMPERATURE



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

Glass-Epoxy Substrate Mounted (Soldering Land=1.22×0.91mm, Both Side)



サージ順電流定格
SURGE CURRENT RATINGS

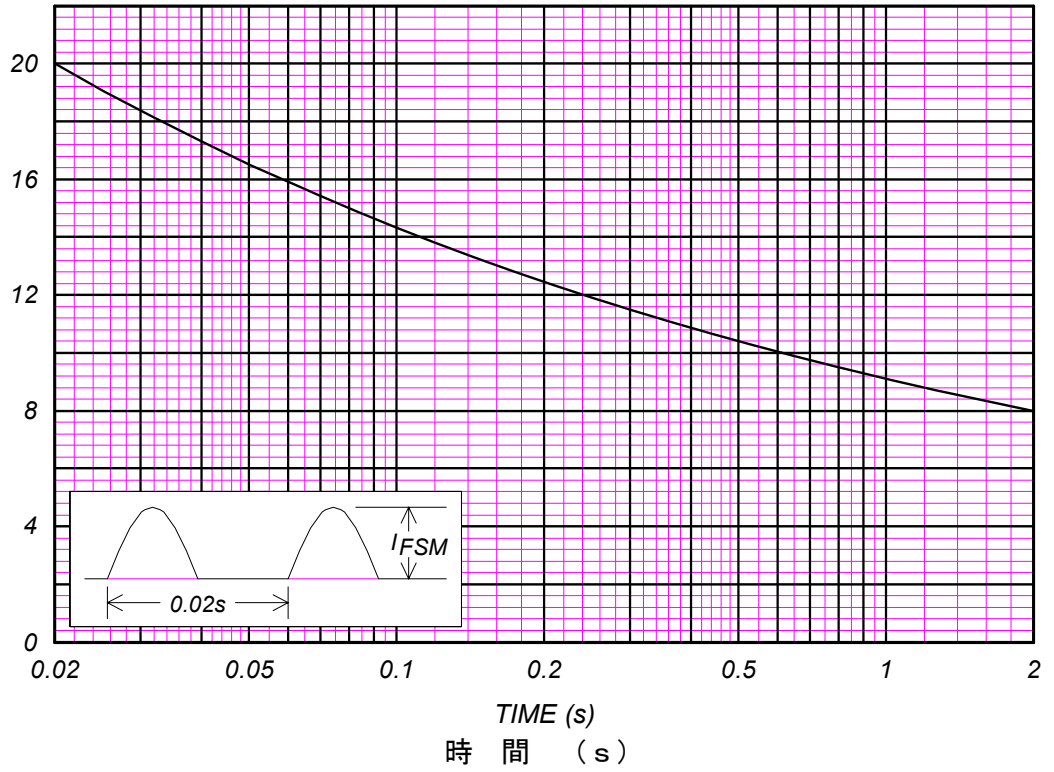
f=50Hz, Half Sine Wave, Non-Repetitive, No Load

MPP5FA20

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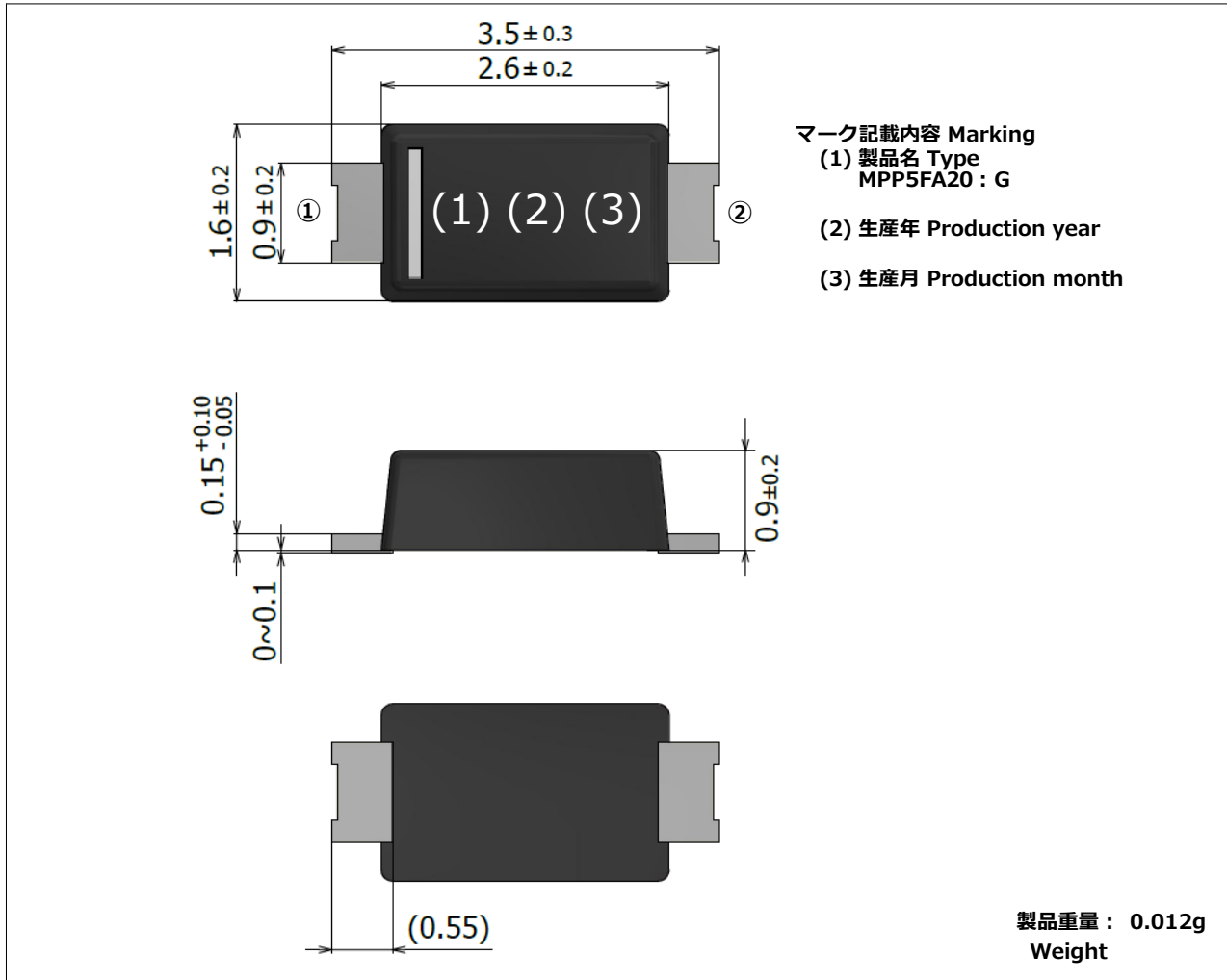
(A)

SURGE FORWARD CURRENT (A)

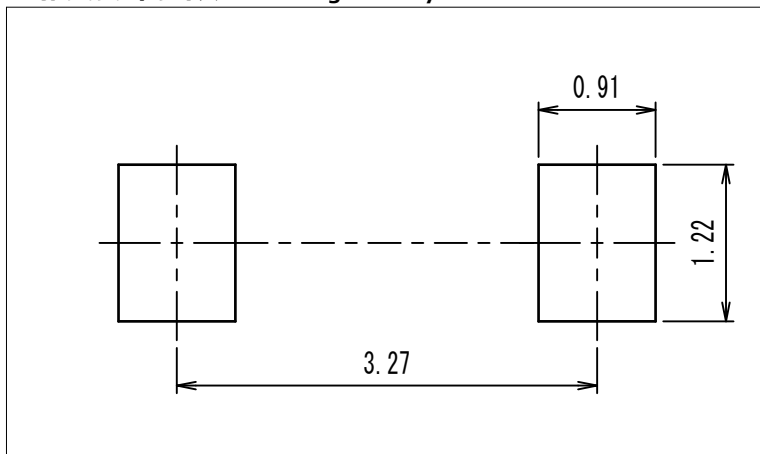


SOD-123_FL

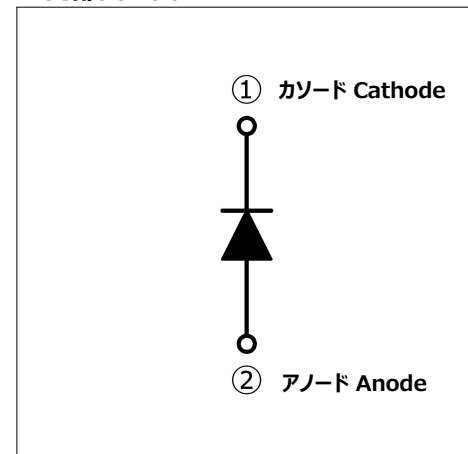
■ 外形図 Package Outline



■ 推奨ランドサイズ Mounting Pad Layout



■ 内部回路図 Inner Circuit



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