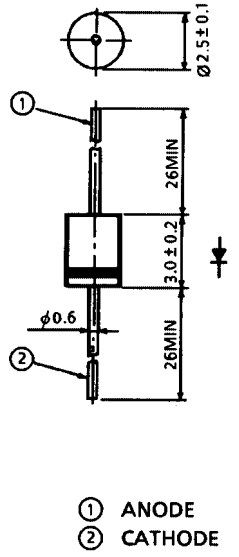
TOSHIBA Rectifier Silicon Diffused Type

S5688B, S5688G, S5688J, S5688N

General Purpose Rectifier Application

Unit: mm



JEDEC	—
JEITA	—
TOSHIBA	3-3F2A

Weight: 0.18 g (typ.)

- Average forward current: $I_{F\ (AV)}$ = 1.0 A
- Repetitive peak reverse voltage: V_{RRM} = 100~1000 V

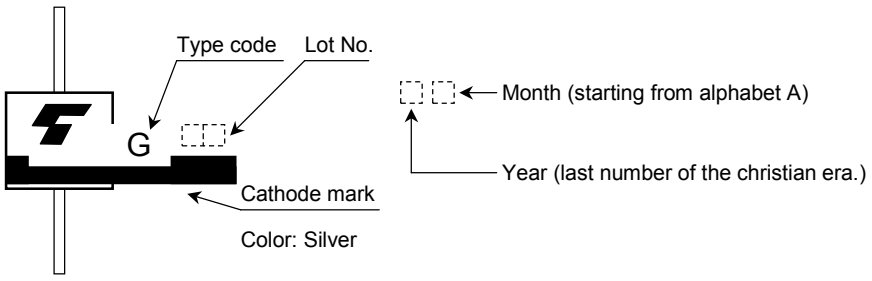
Maximum Ratings (Ta = 25°C)

Characteristic		Symbol	Ratings	Unit
Repetitive peak reverse voltage	S5688B	V_{RRM}	100	V
	S5688G		400	
	S5688J		600	
	S5688N		1000	
Average forward current		$I_{F\ (AV)}$	1.0	A
Peak one cycle surge forward current (non repetitive)	S5688B S5688G	I_{FSM}	45 (50 Hz)	A
			49 (60 Hz)	
	S5688J S5688N		30 (50 Hz)	
			33 (60 Hz)	
Junction temperature		T_j	−40~150	°C
Storage temperature range		T_{stg}	−40~150	°C

Electrical Characteristics (Ta = 25°C)

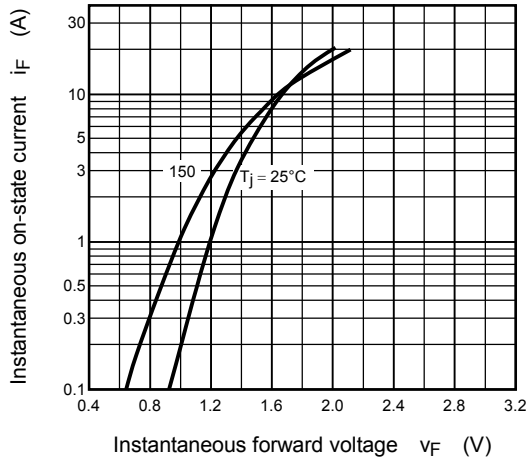
Characteristic	Symbol	Test condition	Min	Typ.	Max	Unit
Peak forward voltage	V_{FM}	I_{FM} = 1.0 A	—	—	1.2	V
Repetitive peak reverse current	I_{RRM}	V_{RRM} = rated	—	—	10	μA

Marking

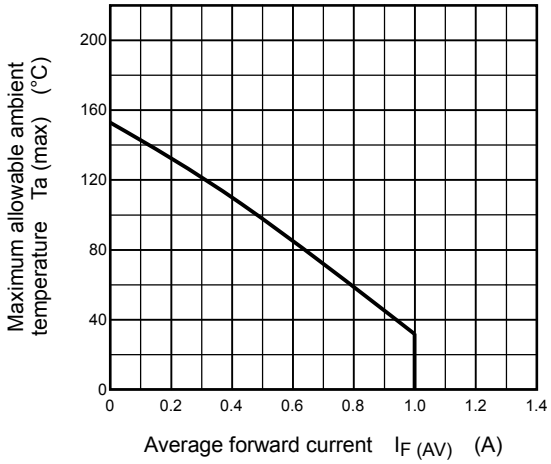


Code	Type
B	S5688B
G	S5688G
J	S5688J
N	S5688N

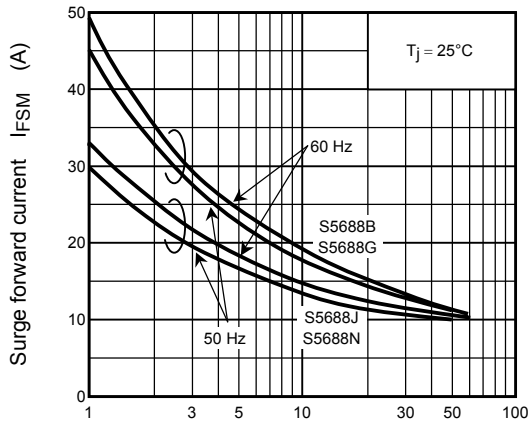
$i_F - v_F$



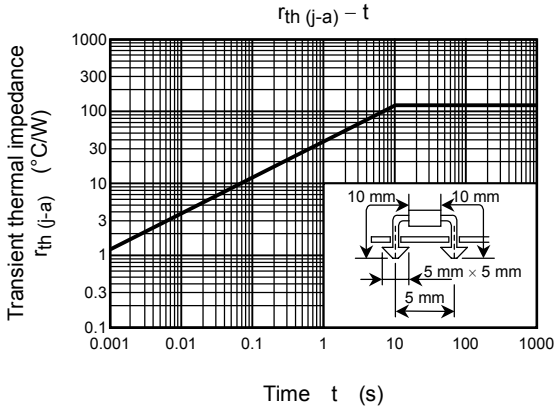
Ta (max) – $I_{F\ (AV)}$



Surge forward current (non-repetitive)



$r_{th\ (j\text{-}a)} - t$



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