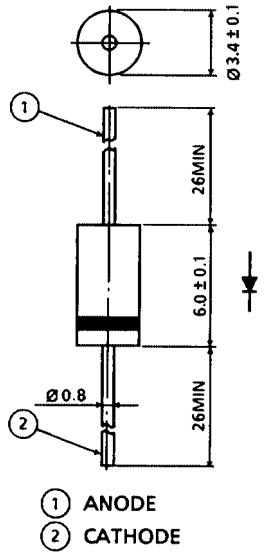
TOSHIBA Rectifier Silicon Diffused Type

1S1832

High Speed Rectifier Applications (fast recovery)

- Average Forward Current: $I_{F\ (AV)}$ = 0.7 A (Ta = 50°C)
- Repetitive Peak Reverse Voltage: V_{RRM} = 1800 V
- Reverse Recovery Time: t_{rr} = 6.0 μs
- Plastic Mold Type.

Unit: mm



JEDEC	DO-15
JEITA	SC-39
TOSHIBA	3-3B1A

Weight: 0.42 g (typ.)

Maximum Ratings (Ta = 25°C)

Characteristics	Symbol	Rating	Unit
Repetitive peak reverse voltage	V_{RRM}	1800	V
Reverse voltage (DC)	V_R	1500	V
Average forward current (Ta = 50°C)	$I_{F\ (AV)}$	0.7	A
Peak one cycle surge forward current (non repetitive)	I_{FSM}	60 (50 Hz)	A
		66 (60 Hz)	
Junction temperature	T_j	−40 to 125	°C
Storage temperature range	T_{stg}	−40 to 125	°C

Electrical Characteristics (Ta = 25°C)

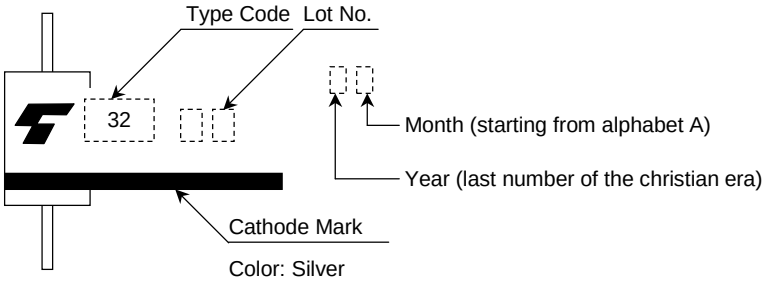
Characteristics	Symbol	Test Condition	Min	Typ.	Max	Unit
Peak forward voltage	V_{FM}	I_{FM} = 1.5 A	—	—	2.0	V
Repetitive peak reverse current	$I_{RRM\ (1)}$	V_{RRM} = 1500 V	—	—	10	μA
	$I_{RRM\ (2)}$	V_{RRM} = 1500 V, T_j = 125°C	—	—	400	
Reverse recovery time	t_{rr}	I_F = 20 mA, I_R = 1 mA	—	—	6.0	μs

Note 1: Lead diameter not controlled in this zone to allow for flash, lead finish build-up, and minor irregularities other than slugs.

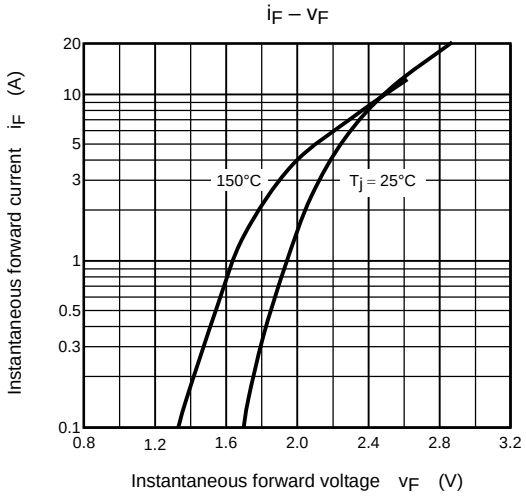
Note 2: Soldering: 5 mm is the minimum to be kept between case and soldering part.

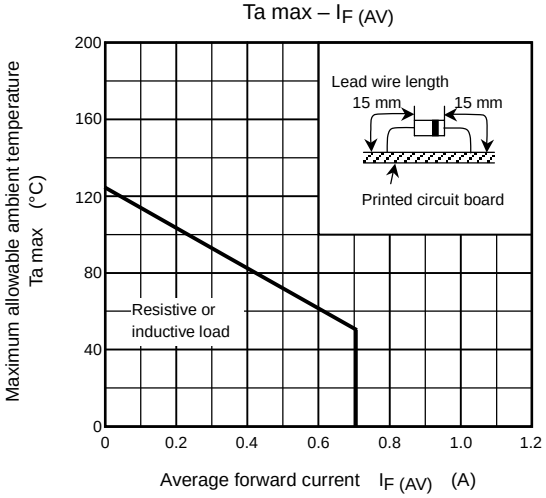
Note 3: Lead bending: 5 mm is the minimum to be kept from the case when bend the lead wire.

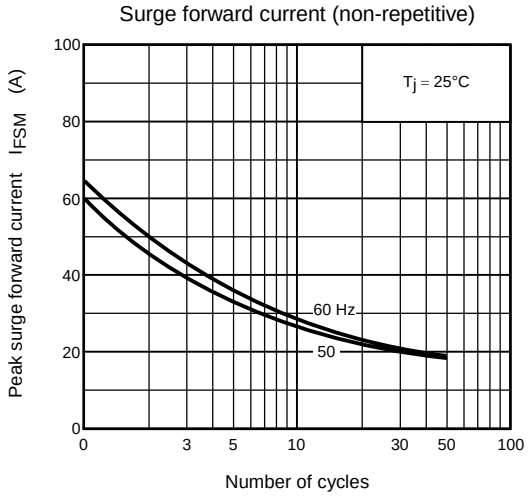
Marking



Code	Type
32	1S1832







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