

TOSHIBA RECTIFIER SILICON DIFFUSED TYPE

# 1S1832

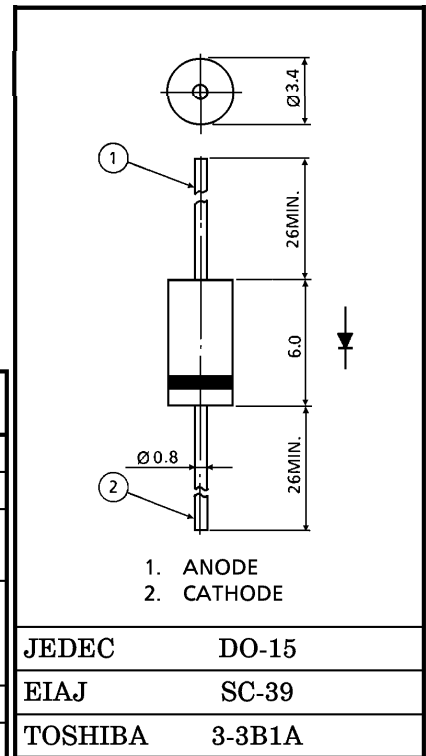
HIGH SPEED RECTIFIER APPLICATIONS  
(FAST RECOVERY)

Unit in mm

- Average Forward Current :  $I_F(AV) = 0.7 \text{ A}$  ( $T_a = 50^\circ\text{C}$ )
- Repetitive Peak Reverse Voltage :  $V_{RRM} = 1800 \text{ V}$
- Reverse Recovery Time :  $t_{rr} = 6.0 \mu\text{s}$
- Plastic Mold Type.

MAXIMUM RATINGS

CHARACTERISTICS	SYMBOL	RATING	UNIT
Repetitive Peak Reverse Voltage	$V_{RRM}$	1800	V
Reverse Voltage (DC)	$V_R$	1500	V
Average Forward Current ( $T_a = 50^\circ\text{C}$ )	$I_F(AV)$	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 ~ 125	$^\circ\text{C}$
Storage Temperature Range	$T_{stg}$	-40 ~ 125	$^\circ\text{C}$

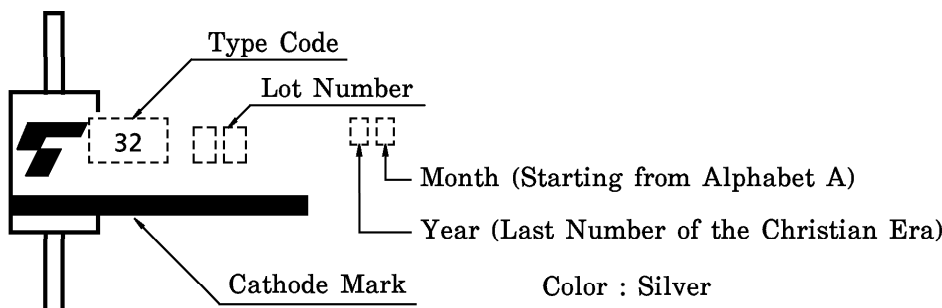


Weight : 0.42 g

ELECTRICAL CHARACTERISTICS ( $T_a = 25^\circ\text{C}$ )

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Peak Forward Voltage	$V_{FM}$	$I_{FM} = 1.5 \text{ A}$	—	—	2.0	V
Repetitive Peak Reverse Current	$I_{RRM}(1)$	$V_{RRM} = 1500 \text{ V}$	—	—	10	$\mu\text{A}$
	$I_{RRM}(2)$	$V_{RRM} = 1500 \text{ V}, T_j = 125^\circ\text{C}$	—	—	400	
Reverse Recovery Time	$t_{rr}$	$I_F = 20 \text{ mA}, I_R = 1 \text{ mA}$	—	—	6	$\mu\text{s}$

MARKING



CODE	TYPE
32	1S1832

961001EAA2

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