

TOSHIBA RECTIFIER SILICON DIFFUSED TYPE

1S1830, 1S1885, 1S1887, 1S1888

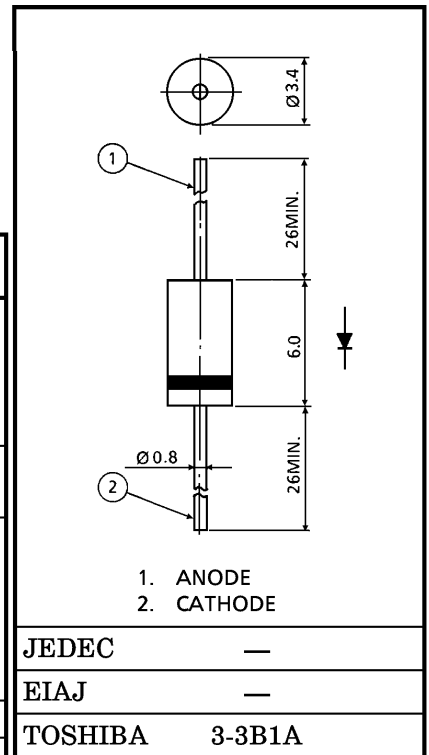
GENERAL PURPOSE RECTIFIER APPLICATIONS

Unit in mm

- Average Forward Current : $I_F(AV) = 1.0 \text{ A}$ ($T_a = 65^\circ\text{C}$)
- Repetitive Peak Reverse Voltage : $V_{RRM} = 100\sim 1000 \text{ V}$

MAXIMUM RATINGS ($T_a = 25^\circ\text{C}$)

CHARACTERISTIC	SYMBOL	RATINGS	UNIT
Repetitive Peak Reverse Voltage	1S1885	100	V
	1S1887	400	
	1S1888	600	
	1S1830	1000	
Average Forward Current ($T_a = 65^\circ\text{C}$)	$I_F(AV)$	1.0	A
Peak One Cycle Surge Forward Current (Non Repetitive)	1S1830	45 (50 Hz)	A
		49 (60 Hz)	
	1S1885	60 (50 Hz)	
	1S1887 1S1888	66 (60 Hz)	
Junction Temperature	T_j	-40~150	$^\circ\text{C}$
Storage Temperature Range	T_{stg}	-40~150	$^\circ\text{C}$

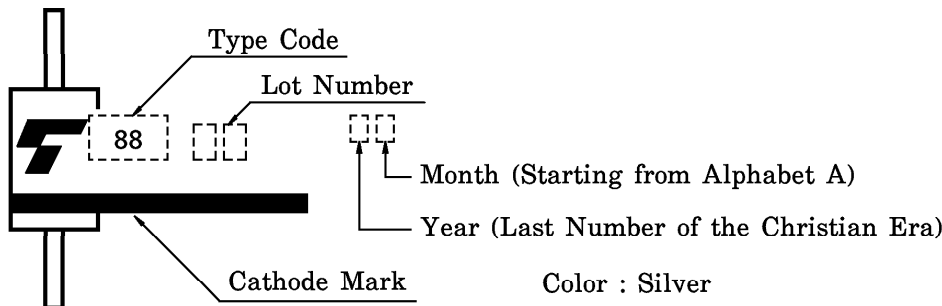


Weight : 0.42 g

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

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Peak Forward Voltage	V_{FM}	$I_{FM} = 1.5 \text{ A}$	—	—	1.2	V
Repetitive Peak Reverse Current	$I_{RRM}(1)$	$V_{RRM} = \text{Rated}$	—	—	10	μA
	$I_{RRM}(2)$	$V_{RRM} = \text{Rated}, T_j = 150^\circ\text{C}$	—	—	400	
Thermal Resistance (Junction to Ambient)	$R_{th(j-a)}$	DC	—	—	100	$^\circ\text{C/W}$

MARKING



CODE	TYPE
30	1S1830
85	1S1885
87	1S1887
88	1S1888

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