

TOSHIBA RECTIFIER SILICON DIFFUSED TYPE

# 1S1830, 1S1885, 1S1887, 1S1888

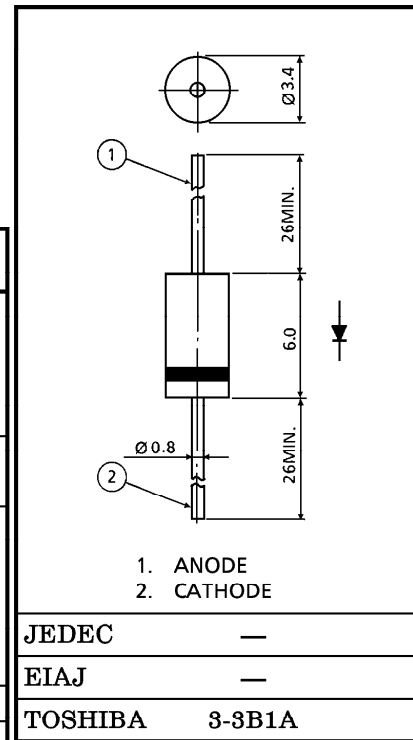
GENERAL PURPOSE RECTIFIER APPLICATIONS.

Unit in mm

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

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

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



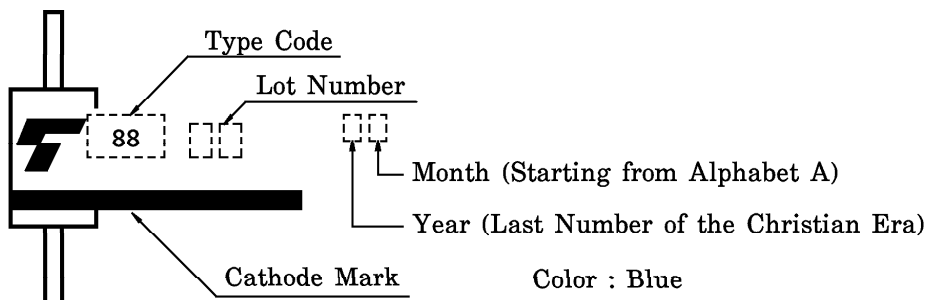
JEDEC	—
EIAJ	—
TOSHIBA	3-3B1A

Weight : 0.42g

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

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

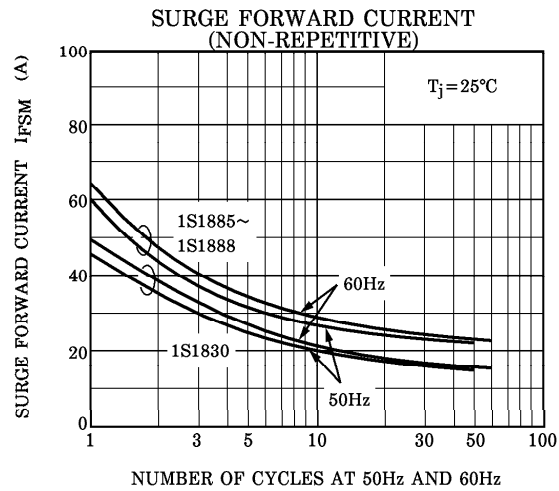
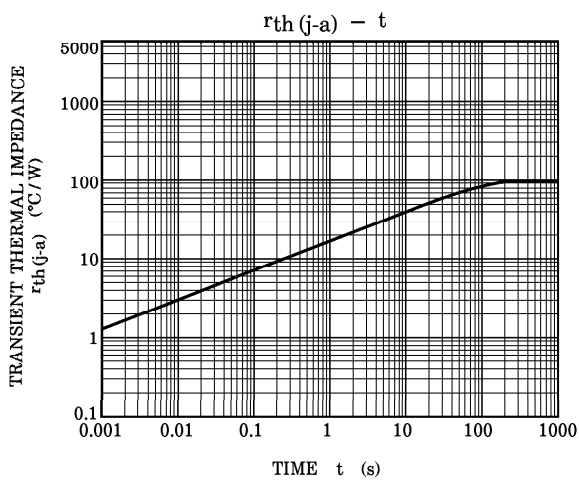
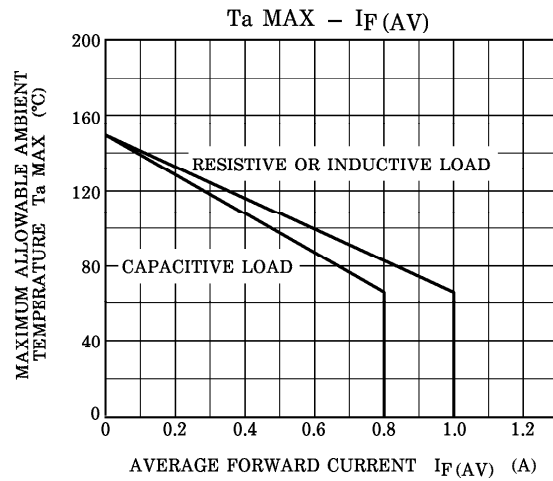
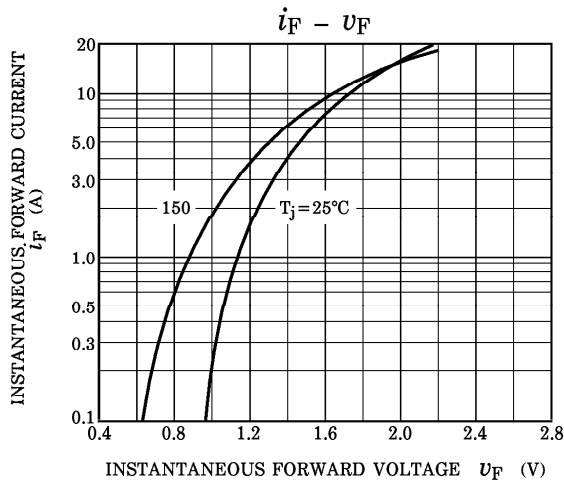
MARK



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

961001EAA2

● TOSHIBA is continually working to improve the quality and the reliability of its products. Nevertheless, semiconductor devices in general can malfunction or fail due to their inherent electrical sensitivity and vulnerability to physical stress. It is the responsibility of the buyer, when utilizing TOSHIBA products, to observe standards of safety, and to avoid situations in which a malfunction or failure of a TOSHIBA product could cause loss of human life, bodily injury or damage to property. In developing your designs, please ensure that TOSHIBA products are used within specified operating ranges as set forth in the most recent products specifications. Also, please keep in mind the precautions and conditions set forth in the TOSHIBA Semiconductor Reliability Handbook.



961001EAA2'

● The information contained herein is presented only as a guide for the applications of our products. No responsibility is assumed by TOSHIBA CORPORATION for any infringements of intellectual property or other rights of the third parties which may result from its use. No license is granted by implication or otherwise under any intellectual property or other rights of TOSHIBA CORPORATION or others.

● The information contained herein is subject to change without notice.