

TOSHIBA**1S1829, 1S1886**

TOSHIBA RECTIFIER SILICON DIFFUSED TYPE

1S1829, 1S1886

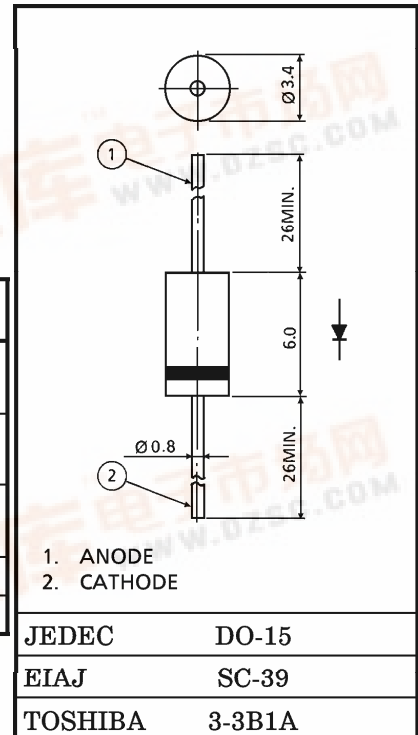
GENERAL PURPOSE RECTIFIER APPLICATIONS

Unit in mm

- Average Forward Current : $I_F(AV)=1.0A$ ($T_a=65^{\circ}C$)
- Repetitive Peak Reverse Voltage : $V_{RRM}=200, 800V$
- Plastic Mold Package

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

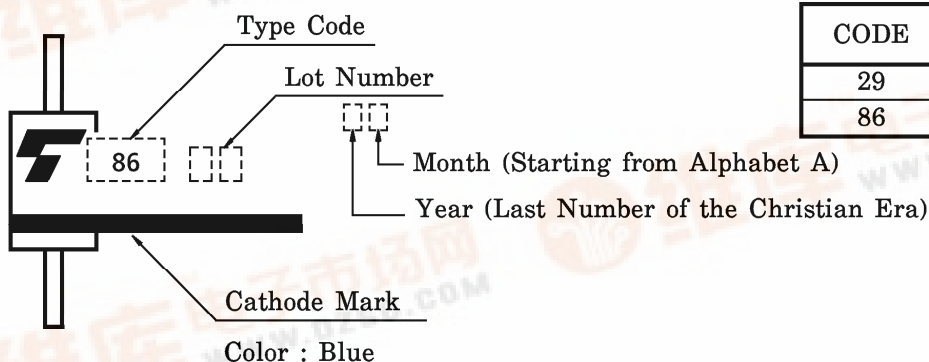
CHARACTERISTIC		SYMBOL	RATINGS	UNIT
Repetitive Peak Reverse Voltage	1S1886	V_{RRM}	200	V
	1S1829		800	
Average Forward Current ($T_a=60^{\circ}C$)		$I_F(AV)$	1.0	A
Peak One Cycle Surge Forward Current	1S1829	I_{FSM}	45 (50Hz)	A
	1S1886		60 (50Hz)	
Junction Temperature		T_j	$-40\sim150$	$^{\circ}C$
Storage Temperature Range		T_{stg}	$-40\sim150$	$^{\circ}C$

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

Weight : 0.42g

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	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	μA
	$I_{RRM}(2)$	$V_{RRM}=\text{Rated}, T_j=150^{\circ}C$	—	400	
Thermal Resistance (Junction to Ambient)	$R_{th(j-a)}$	DC	—	100	$^{\circ}C/W$

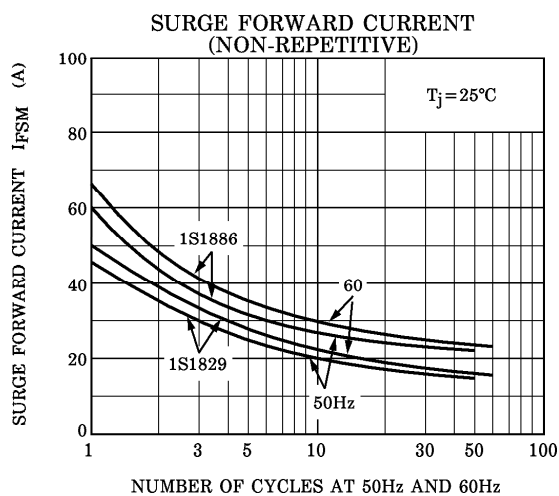
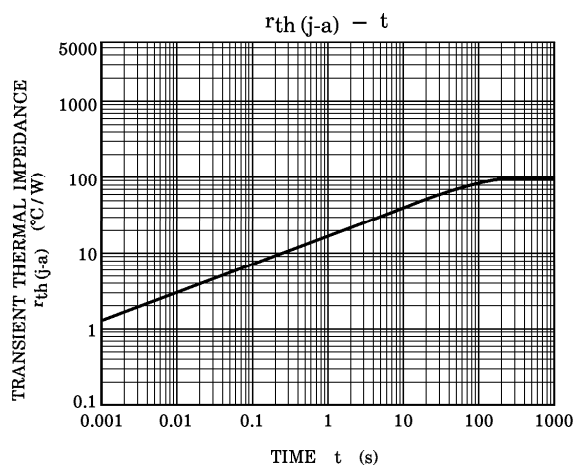
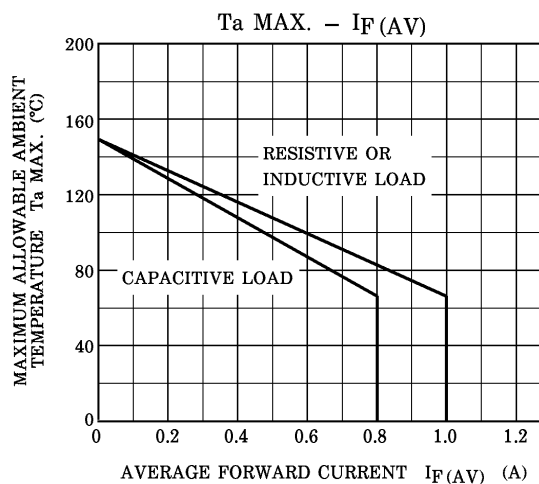
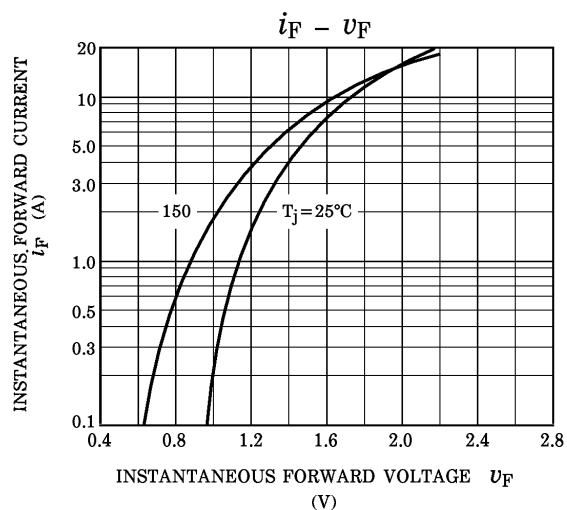
MARKING



CODE	TYPE
29	1S1829
86	1S1886

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.