

TOSHIBA RECTIFIER SILICON DIFFUSED TYPE

1S1829, 1S1886

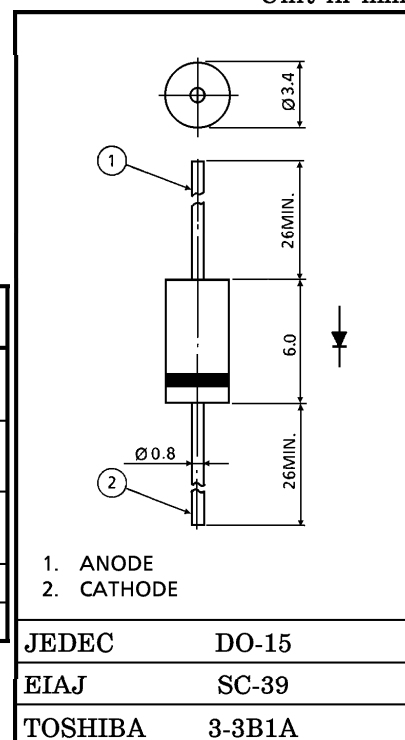
GENERAL PURPOSE RECTIFIER APPLICATIONS

Unit in mm

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

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

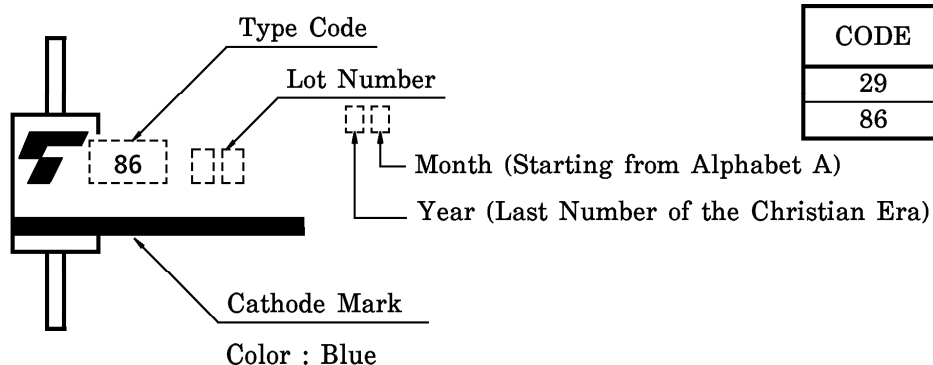
CHARACTERISTIC		SYMBOL	RATINGS	UNIT
Repetitive Peak Reverse Voltage	1S1886	V_{RRM}	200	V
	1S1829		800	
Average Forward Current ($T_a = 60^\circ\text{C}$)		I_F (AV)	1.0	A
Peak One Cycle Surge Forward Current	1S1829	I_{FSM}	45 (50Hz)	A
	1S1886		60 (50Hz)	
Junction Temperature		T_j	$-40 \sim 150$	$^\circ\text{C}$
Storage Temperature Range		T_{stg}	$-40 \sim 150$	$^\circ\text{C}$

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

Weight : 0.42g

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	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	$^\circ\text{C} / \text{W}$

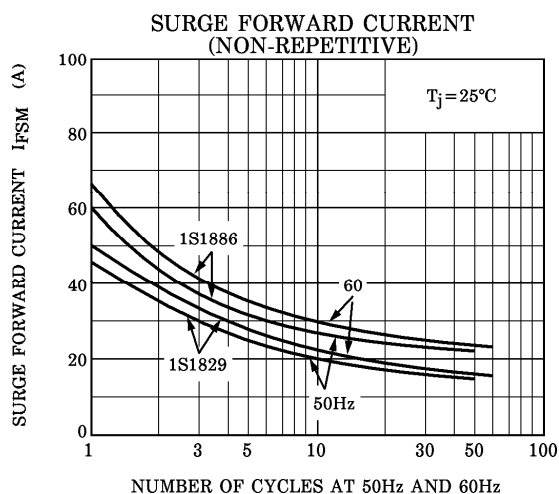
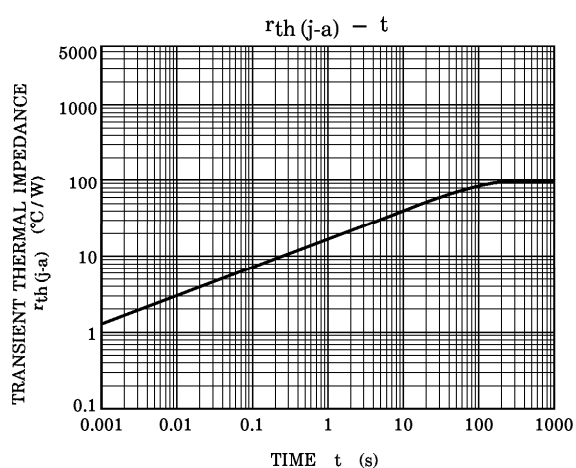
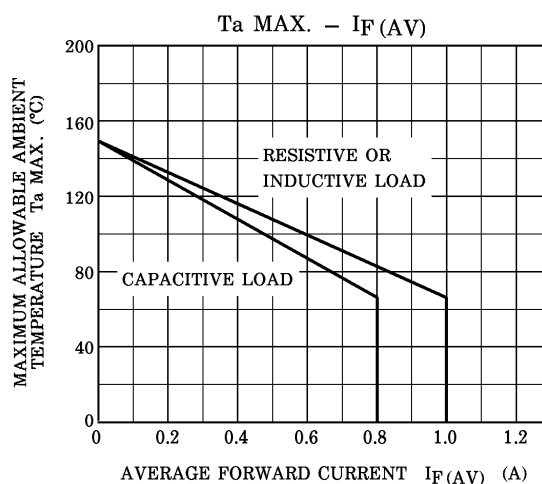
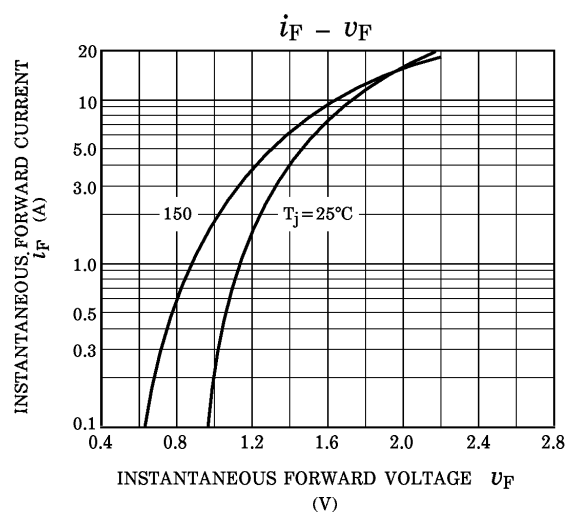
MARKING



CODE	TYPE
29	1S1829
86	1S1886

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