

TOSHIBA Rectifier Silicon Diffused Type

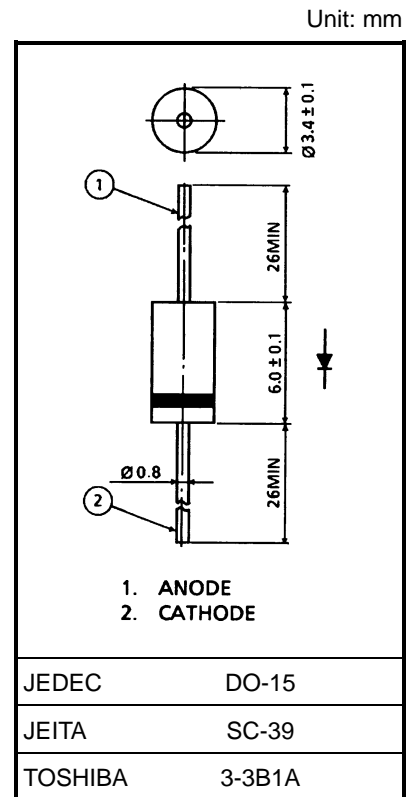
# 1S1830,1S1885,1S1887,1S1888

## General Purpose Rectifier Applications

- Average Forward Current:  $I_F (AV) = 1.0 \text{ A}$  ( $T_a = 65^\circ\text{C}$ )
- Repetitive Peak Reverse Voltage:  $V_{RRM} = 100 \text{ V}, 400 \text{ V}, 600 \text{ V}, 1000 \text{ V}$

## Maximum Ratings ( $T_a = 25^\circ\text{C}$ )

Characteristics	Symbol	Rating	Unit
Repetitive peak reverse voltage	$V_{RRM}$	100	V
		400	
		600	
		1000	
Average forward current ( $T_a = 65^\circ\text{C}$ )	$I_F (AV)$	1.0	A
Peak one cycle surge forward current (non repetitive)	$I_{FSM}$	45 (50 Hz)	A
		49 (60 Hz)	
		60 (50 Hz)	
		66 (60 Hz)	
Junction temperature	$T_j$	-40 to 150	$^\circ\text{C}$
Storage temperature range	$T_{stg}$	-40 to 150	$^\circ\text{C}$

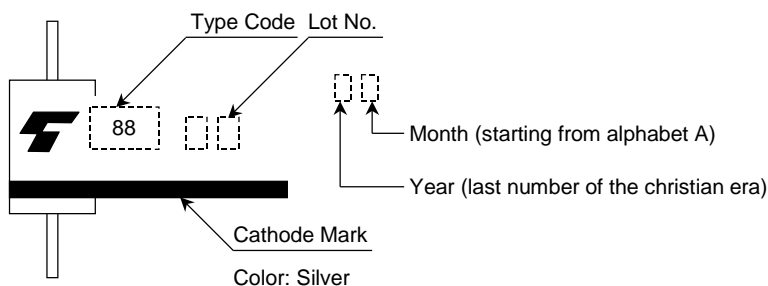


Weight: 0.42 g (typ.)

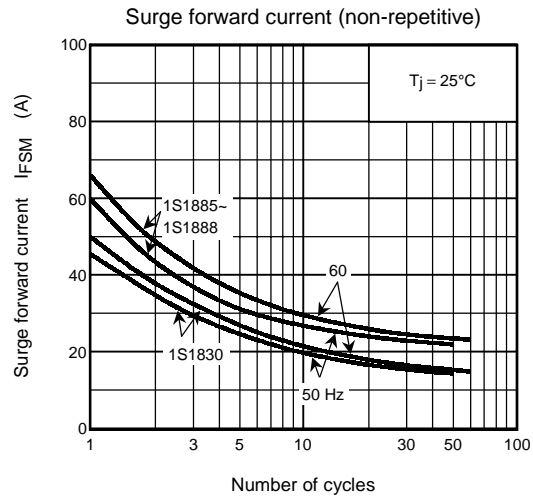
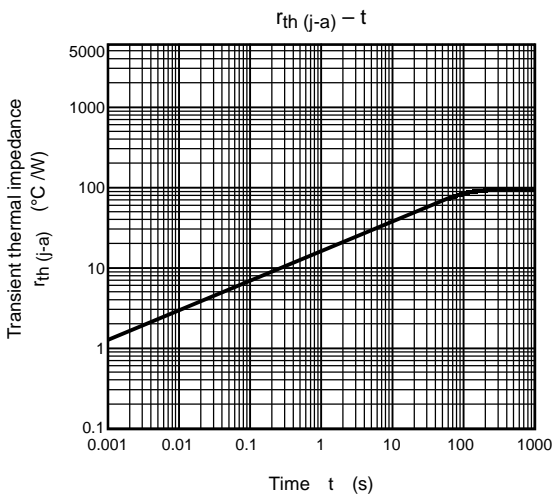
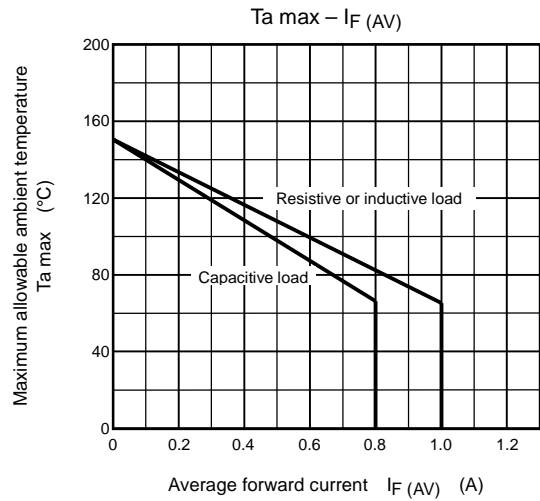
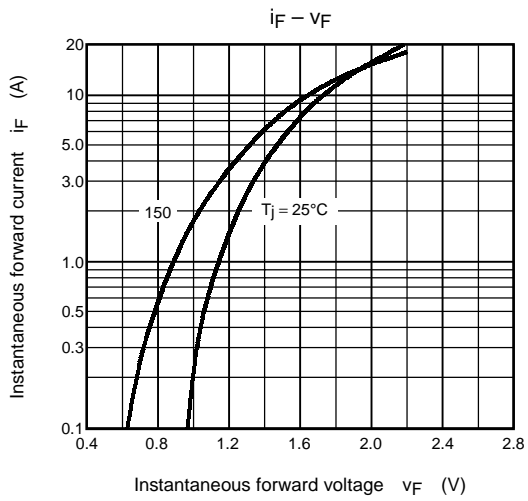
## Electrical Characteristics ( $T_a = 25^\circ\text{C}$ )

Characteristics	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	$\mu\text{A}$
	$I_{RRM} (2)$	$V_{RRM} = \text{Rated}, T_j = 150^\circ\text{C}$	—	—	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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000707EAA

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