TOSHIBA RECTIFIER SILICON DIFFUSED TYPE

151830, 151885, 151887, 151888

GENERAL PURPOSE RECTIFIER APPLICATIONS.

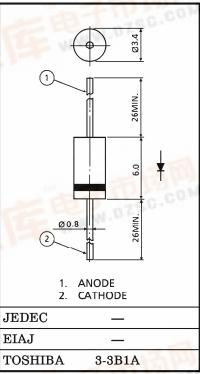
Unit in mm

• Average Forward Current : I_{F (AV)}=1.0A (Ta=65°C)

• Repetitive Peak Reverse Voltage: V_{RRM}=100~1000V

MAXIMUM RATINGS (Ta = 25°C)

CHARACTERISTIC		SYMBOL	RATINGS	UNIT	
11/2	1S1885		100		
Repetitive Peak Reverse	1S1887	37	400	V	
Voltage	1S1888	v_{RRM}	600		
	1S1830		1000		
Average Forward Current (Ta = 65°C)		I _{F (AV)}	1.0	A	
	101000		45 (50Hz)		
Peak One Cycle Surge	1S1830	$I_{ ext{FSM}}$	49 (60Hz)		
Forward Current	1S1885		60 (50Hz)	A	
(Non Repetitive)	1S1887		<u> </u>		
AGE LELIE	1S1888		66 (60Hz)		
Junction Temperature	$T_{ m j}$	-40~150	°C		
Storage Temperature Range		$\mathrm{T_{stg}}$	-40~150	°C	

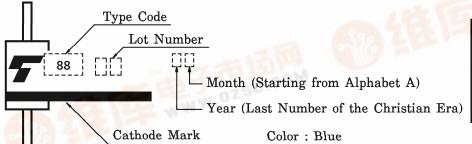


Weight: 0.42g

ELECTRICAL CHARACTERISTICS (Ta = 25°C)

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Peak Forward Voltage	$V_{\mathbf{FM}}$	I _{FM} =1.5A	_	_	1.2	V
Repetitive Peak Reverse	IRRM (1)	$V_{RRM} = Rated$	_	_	10	
Current	IRRM (2)	$V_{RRM} = Rated, T_j = 150$ °C	_		400	μ A
Thermal Resistance (Junction to Ambient)	R _{th (j-a)}	DC	_	_	100	°C/W

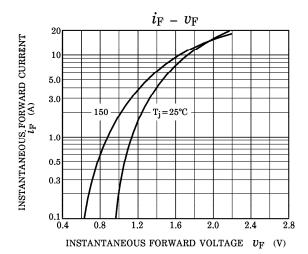
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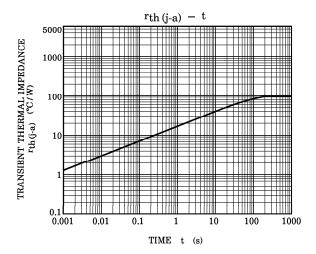


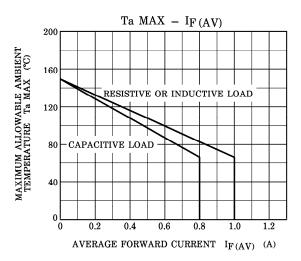
CODE	TYPE
30	1S1830
85	1S1885
87	1S1887
88	1S1888

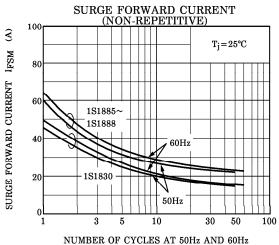
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