TOSHIBA

1\$1834,1\$1835

## TOSHIBA RECTIFIER SILICON DIFFUSED TYPE 1S1834, 1S1835

HIGH SPEED RECTIFIER APPLICATIONS.

(FAST RECOVERY)

• Average Forward Current : IF(AV)=1.0A

• Repetitive Peak Reverse Voltage :  $V_{RRM} = 400 \sim 600 V$ 

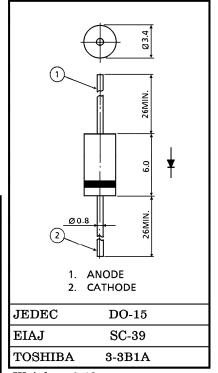
• Reverse Recovery Time :  $t_{rr(1)} = 1.5 \mu s$ 

 $: t_{rr(2)} = 0.35 \mu s$ 

• Plastic Mold Type.

## **MAXIMUM RATINGS**

CHARACTERISTIC		SYMBOL	RATINGS	UNIT	
Repetitive Peak Reverse	1S1834	Vans	400	V	
Voltage	1S1835	$V_{ m RRM}$	600		
Reverse Voltage (DC)	1S1834	<i>V</i> -	300	V	
	1S1835	$V_{ m R}$	500		
Average Forward Current (Ta=50°C)	I <sub>F (AV)</sub>	1.0	A		
Peak One Cycle Surge Forward		$I_{ ext{FSM}}$	60 (50Hz)	A	
Current (Non Repetitive)	66 (60Hz)				
Junction Temperature		$T_{j}$	-40~125	$^{\circ}\mathrm{C}$	
Storage Temperature Range		T <sub>stg</sub> -40~125		°C	



Unit in mm

Weight: 0.42g

## ELECTRICAL CHARACTERISTICS (Ta = 25°C)

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT	
Peak Forward Voltage	$V_{\mathbf{FM}}$	I <sub>FM</sub> =1.5A	l —	_	1.2	V	
Repetitive Peak Reverse	I <sub>RRM (1)</sub>	$V_{ m RRM}$ = Rated	_	_	10		
Current	I <sub>RRM (2)</sub>	$V_{RRM} = Rated, T_j = 125$ °C	_	_	500	$\mu$ <b>A</b>	
Reverse Recovery Time	$t_{rr(1)}$	$I_F$ =20mA, $I_R$ =1mA	_	_	1.5		
	$t_{rr(2)}$	$I_F$ =20mA, $I_R$ =20mA	_	_	0.35	$\mu$ s	
Forward Recovery Voltage	$V_{\mathbf{fr}}$	$I_{\rm F}$ =0.1A, $t_{ m r}$ =100ns, $t_{ m w}$ =5 $\mu$ s	_	_	6	V	

- (Note 1) Lead diameter not controlled in this zone to allow for flash, lead finish build-up, and minor irregularities other than slugs.
- (Note 2) Soldering: 5mm is the minimum to be kept between case and soldering part.
- (Note 3) Lead bending: 5mm is the minimum to be kept from the case when bend the lead wire.

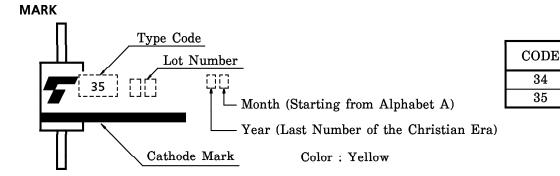
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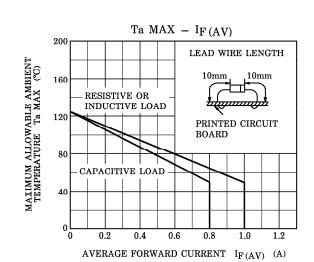
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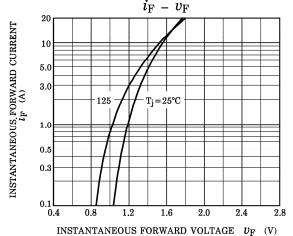
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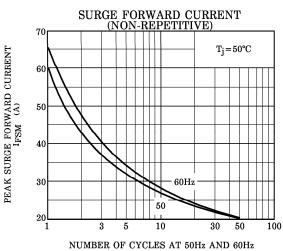
1S1834

1S1835









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