Unit: mm

TOSHIBA Rectifier Silicon Diffused Type

# **1S1834,1S1835**

### High Speed Rectifier Applications (fast recovery)

• Average Forward Current: IF (AV) = 1.0 A (Ta = 50°C)

• Repetitive Peak Reverse Voltage: V<sub>RRM</sub> = 400, 600 V

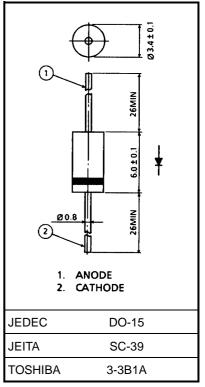
• Reverse Recovery Time:  $t_{rr}(1) = 1.5 \mu s$ 

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

• Plastic Mold Type.

#### Maximum Ratings (Ta = 25°C)

Characteristics		Symbol	Rating	Unit	
Repetitive peak	1S1834	V <sub>RRM</sub>	400	V	
reverse voltage	1S1835	VRRM	600		
Reverse voltage	1S1834	V <sub>R</sub>	300	V	
(DC)	1S1835	VR	500		
Average forward current (Ta = 50°C)		I <sub>F (AV)</sub>	1.0	Α	
Peak one cycle surge forward current (non repetitive)		leon	60 (50 Hz)	А	
		IFSM	66 (60 Hz)	A	
Junction temperature		Tj	-40 to 125	°C	
Storage temperature range		T <sub>stg</sub>	-40 to 125	°C	



Weight: 0.42 g (typ.)

## **Electrical Characteristics (Ta = 25°C)**

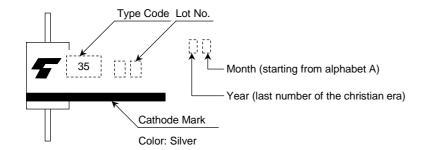
Characteristics	Symbol	Test Condition	Min	Тур.	Max	Unit
Peak forward voltage	$V_{FM}$	I <sub>FM</sub> = 1.5 A	_	_	1.2	V
Repetitive peak reverse current	I <sub>RRM (1)</sub>	V <sub>RRM</sub> = Rated	_	_	10	μА
Repetitive peak reverse current	I <sub>RRM (2)</sub>	V <sub>RRM</sub> = Rated, T <sub>j</sub> = 125°C			500	
Reverse recovery time	t <sub>rr (1)</sub>	$I_F = 20 \text{ mA}, I_R = 1 \text{ mA}$	_	_	1.5	μS
ineverse recovery time	t <sub>rr (2)</sub>	$I_F = 20 \text{ mA}, I_R = 20 \text{ mA}$	_	_	0.35	
Forward recovery voltage	V <sub>fr</sub>	$I_F = 0.1 \text{ A}, t_r = 100 \text{ ns}, t_W = 5 \mu \text{s}$			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.

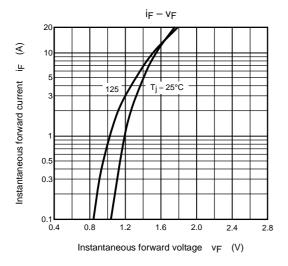
Note 2: Soldering: 5 mm is the minimum to be kept between case and soldering part.

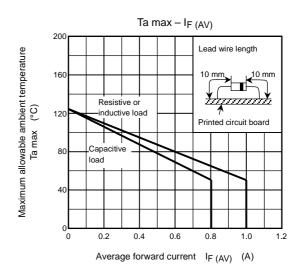
Note 3: Lead bending: 5 mm is the minimum to be kept from the case when bend the lead wire.

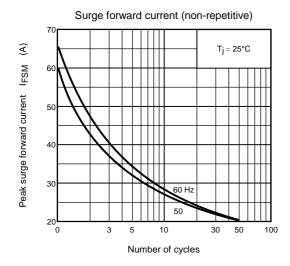
### Marking



Code	Туре
34	1S1834
35	1S1835







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000707EAA

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