TOSHIBA Rectifier Silicon Diffused Type

1S1834, 1S1835

High Speed Rectifier Applications (fast recovery)

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

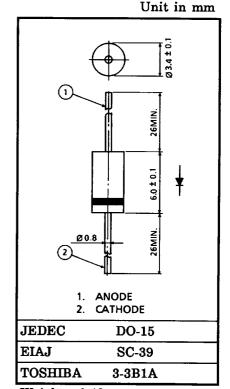
• Repetitive Peak Reverse Voltage: VRRM = 400, 600 V

• Reverse Recovery Time: t_{rr} (1) = 1.5 μs t_{rr} (2) = 0.35 μs

• Plastic Mold Type.

Maximum Ratings

Characteristics		Symbol	Rating	Unit	
Repetitive peak	1S1834	V _{RRM}	400	٧	
reverse voltage	1S1835	VRRM	600		
Reverse voltage (DC)	1S1834	V _R	300	V	
	1S1835	VR	500		
Average forward current (Ta = 50°C)		I _{F (AV)}	1.0	Α	
Peak one cycle sur	ge forward current	l	60 (50 Hz)	Α	
(non repetitive)		I _{FSM}	66 (60 Hz)		
Junction temperature		Tj	-40 to 125	°C	
Storage temperature range		T _{stg}	-40 to 125	°C	



Weight: 0.42 g

Electrical Characteristics (Ta = 25°C)

Characteristics	Symbol	Test Condition	Min	Тур.	Max	Unit
Peak forward voltage	V_{FM}	I _{FM} = 1.5 A	_	_	1.2	V
Repetitive peak reverse current	I _{RRM (1)}	V _{RRM} = Rated		_	10	
Repetitive peak reverse current	I _{RRM (2)}	V _{RRM} = Rated, T _j = 125°C		_	500	μА
Reverse recovery time	t _{rr (1)}	$I_F = 20 \text{ mA}, I_R = 1 \text{ mA}$	_	_	1.5	116
Neverse recovery unite	t _{rr (2)}	$I_F = 20 \text{ mA}, I_R = 20 \text{ mA}$	_	_	0.35	μs
Forward recovery voltage	V _{fr}	$I_F = 0.1 \text{ A}, t_r = 100 \text{ ns}, t_W = 5 \mu \text{s}$	_	_	6	٧

Note1: Lead diameter not controlled in this zone to allow for flash, lead finish build-up, and minor irregularities other than slugs.

Note2: Soldering: 5 mm is the minimum to be kept between case and soldering part.

Note3: Lead bending: 5 mm is the minimum to be kept from the case when bend the lead wire.

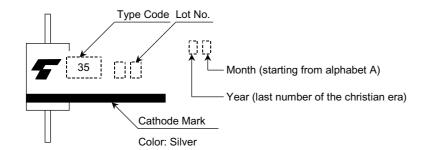
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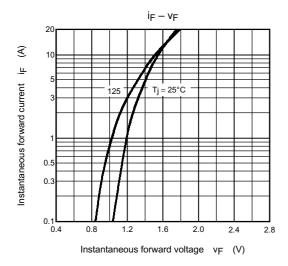
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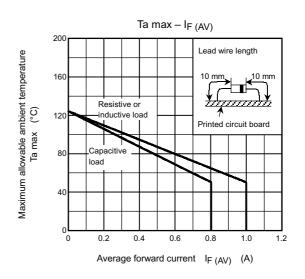
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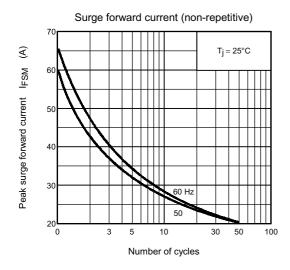
Marking



Code	Туре	
34	1S1834	
35	1S1835	







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