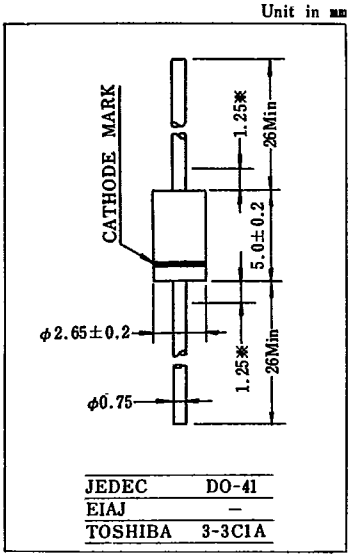
FAST RECOVERY DIODE

TVR1J 600V 0.5A

Unit in mm



JEDEC	DO-41
EIAJ	—
TOSHIBA	3-3C1A

MAXIMUM RATINGS

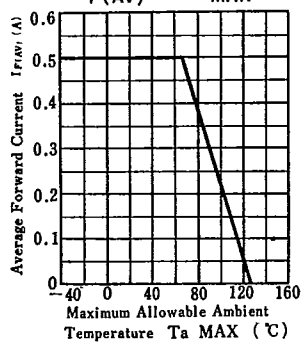
CHARACTERISTIC		SYMBOL	RATING	UNIT
Repetitive Peak Reverse Voltage	TVR1B	V_{RRM}	100	V
	TVR1D		200	
	TVR1G		400	
	TVR1J		600	
Average Forward Current		$I_{F(AV)}$	0.5	A
Peak One Cycle Surge Forward Current (Non-Repetitive)		I_{FSM}	10	A
Storage Temperature Range		T_{stg}	−40~125	℃
Junction temperature		T_j	−40~125	℃

ELECTRICAL CHARACTERISTICS

CHARACTERISTIC	SYMBOL	CONDITION	MIN.	TYP.	MAX.	UNIT
Peak Forward Voltage	V_{FM}	$I_{FM}=0.5A$, $T_j=25℃$	—	—	1.2	V
Repetitive Peak Reverse Current	I_{RRM}	V_{RRM}=Rated, $T_j=25℃$	—	—	10	μA
Reverse Recovery Time	t_{rr}	$I_F=20mA$, $I_R=1mA$, $T_j=25℃$	—	—	2.0	μs

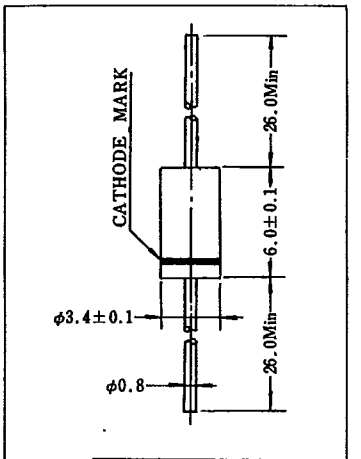
Notes : 1. Soldering : 5mm is the minimum to de kept between case and solding part.
2. Lead Bending : 5mm is the minimum to be kept from the case when bend the lead wire.

$I_{F(AV)}$ – Ta MAX



1S2777 600V 0.5A

Unit in mm



JEDEC	DO-15
EIAJ	SC−39
TOSHIBA	3-3B1A

MAXIMUM RATING

CHARACTERISTIC		SYMBOL	RATING	UNIT
Repetitive Peak Reverse Voltage	1S2775	V_{RRM}	200	V
	1S2776		400	
	1S2777		600	
Reverse Voltage	1S2775	V_R	100	V
	1S2776		300	
	1S2777		500	
Average Forward Current (Ta=50℃)		$I_{F(AV)}$	0.5	A
Peak One Cycle Surge Forward Current (Non-Repetitive)		I_{FSM}	30	A
Junction Temperature		T_j	−40~125	℃
Storage Temperature Range		T_{stg}	−40~125	℃

ELECTRICAL CHARACTERISTICS

CHARACTERISTIC	SYMBOL	CONDITION	MIN.	TYP.	MAX.	UNIT
Peak Forward Voltage	V_{FM}	$I_{FM}=1.0A$, $T_j=25℃$	—	—	1.4	V
Repetitive Peak Reverse Current	I_{RRM} (1)	V_{RRM}=Rated, $T_j=25℃$	—	—	10	μA
	I_{RRM} (2)	V_{RRM}=Rated, $T_j=125℃$	—	—	300	
Reverse Recovery Time	t_{rr}(1)	$I_F=20mA$, $I_R=1mA$, $T_j=25℃$	—	—	8.0	μs
	t_{rr}(2)	$I_F=10mA$, $I_R=10mA$, $T_j=25℃$	—	—	2.0	
Forward Recovery Voltage	V_{fr}	$I_F=0.1A$, $t_r=100ns$, $t_p=5μs$, $T_j=25℃$	—	—	6.0	V

Notes : 1. Soldering : 5mm is the minimum to de kept between case and solding part.
2. Lead Bending : 5mm is the minimum to be kept from the case when bend the lead wire.

$I_{F(AV)}$ – Ta MAX