

TOSHIBA (DISCRETE/OPTO)

39 DE 9097250 0002242 9

**1S2711** 1500V 1.5A

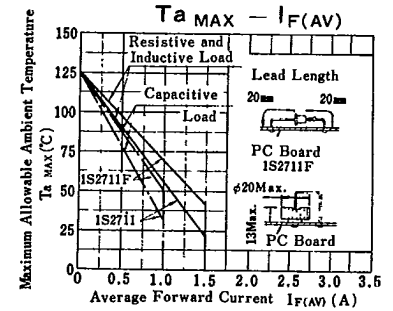
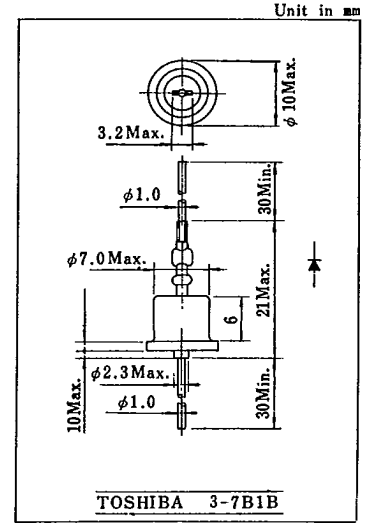
**MAXIMUM RATINGS**

CHARACTERISTIC	SYMBOL	RATING	UNIT
Repetitive Peak Reverse Voltage	V <sub>RRM</sub>	1500	V
Non-Repetitive Peak Reverse Voltage	V <sub>RSM</sub>	1600	V
Average Forward Current (T <sub>a</sub> =20°C)	I <sub>F(AV)</sub>	1.5	A
Peak One Cycle Surge Forward Current (Non-Repetitive)	I <sub>FSM</sub>	60(50Hz)	A
Junction Temperature	T <sub>j</sub>	-40~125	°C
Storage Temperature Range	T <sub>stg</sub>	-40~150	°C

**ELECTRICAL CHARACTERISTICS**

CHARACTERISTIC	SYMBOL	CONDITION	MIN.	TYP.	MAX.	UNIT
Peak Forward Voltage	V <sub>FM</sub>	I <sub>FM</sub> =2.0A, T <sub>j</sub> =25°C	-	-	1.2	V
Repetitive Peak Reverse Current	I <sub>RRM</sub> (1)	V <sub>RRM</sub> =Rated, T <sub>j</sub> =25°C	-	-	10	μA
		V <sub>RRM</sub> =Rated, T <sub>j</sub> =125°C	-	-	600	
Reverse Recovery Time	t <sub>rr</sub>	I <sub>F</sub> =20mA, I <sub>R</sub> =1mA, T <sub>j</sub> =25°C	-	-	20	μs
Forward Recovery Voltage	V <sub>fr</sub>	I <sub>F</sub> =0.1A, t <sub>r</sub> =100ns, t <sub>p</sub> =5μs, T <sub>j</sub> =25°C	-	-	5	V

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



**3JH61** 600V 3A

**MAXIMUM RATINGS**

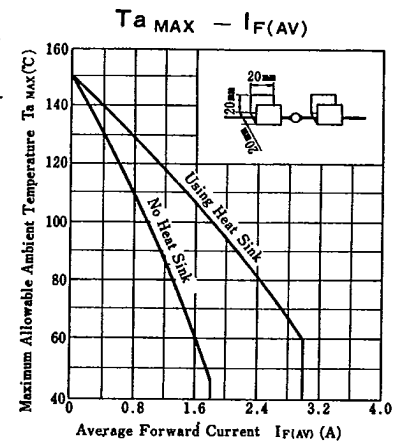
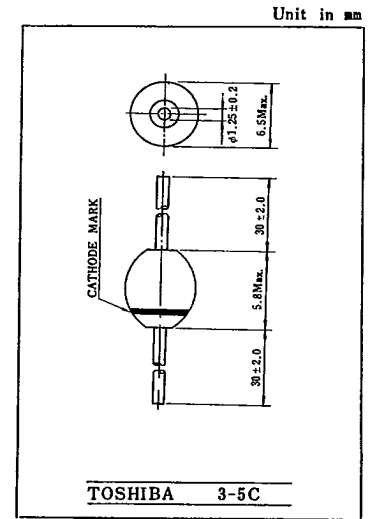
CHARACTERISTIC	SYMBOL	RATING	UNIT
Repetitive Peak Reverse Voltage	3BH61	100	V
	3DH61	200	
	3GH61	400	
	3JH61	600	
Average Forward Current	I <sub>F(AV)</sub>	1.5 * 1	A
		3.0 * 2	
Peak One Cycle Surge Forward Current (Non-Repetitive)	I <sub>FSM</sub>	60(50Hz)	A
Junction Temperature	T <sub>j</sub>	-40~150	°C
Storage Temperature Range	T <sub>stg</sub>	-40~150	°C

- \* 1 No Heat Sink \* 2 With Heat Sink

**ELECTRICAL CHARACTERISTICS**

CHARACTERISTIC	SYMBOL	CONDITION	MIN.	TYP.	MAX.	UNIT
Peak Forward Voltage	V <sub>FM</sub>	I <sub>FM</sub> =3A, T <sub>j</sub> =25°C	-	-	1.4	V
Repetitive Peak Reverse Current	I <sub>RRM</sub> (1)	V <sub>RRM</sub> = Rated, T <sub>j</sub> =25°C	-	-	20	μA
		V <sub>RRM</sub> = Rated, T <sub>j</sub> =150°C	-	-	3000	
Reverse Recovery Time	t <sub>rr</sub> (1)	I <sub>F</sub> =20mA, I <sub>R</sub> =1mA, T <sub>j</sub> =25°C	-	-	1.5	μs
		I <sub>F</sub> =20mA, I <sub>R</sub> =20mA, T <sub>j</sub> =25°C	-	-	0.5	
Forward Recovery Voltage	V <sub>fr</sub>	I <sub>F</sub> =0.1A, t <sub>p</sub> =5μs, T <sub>j</sub> =25°C	-	-	10	V

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



30