

TOSHIBA SCHOTTKY BARRIER RECTIFIER SCHOTTKY BARRIER TYPE

3GWJ42

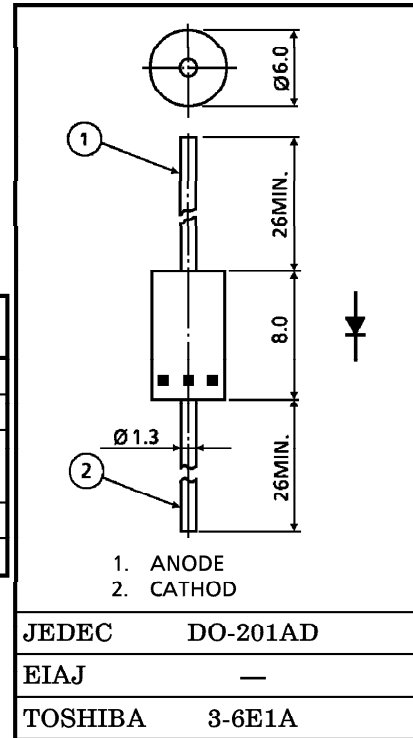
HIGH SPEED RECTIFIER APPLICATIONS

Unit in mm

- Average Forward Current : $I_F(AV)=3.0A$
- Low Forward Voltage : $V_{FM}=0.55V$ (Max.)

MAXIMUM RATINGS (Ta = 25°C)

CHARACTERISTIC	SYMBOL	RATING	UNIT
Repetitive Peak Reverse Voltage	V_{RRM}	40	V
Average Forward Current	$I_F(AV)$	3.0	A
Peak One Cycle Surge Forward Current (Non-Repetitive)	I_{FSM}	120 (50Hz) 132 (60Hz)	A
Junction Temperature	T_j	-40~125	°C
Storage Temperature Range	T_{stg}	-40~125	°C



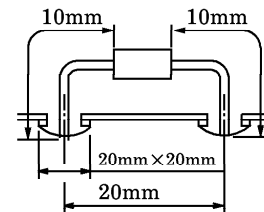
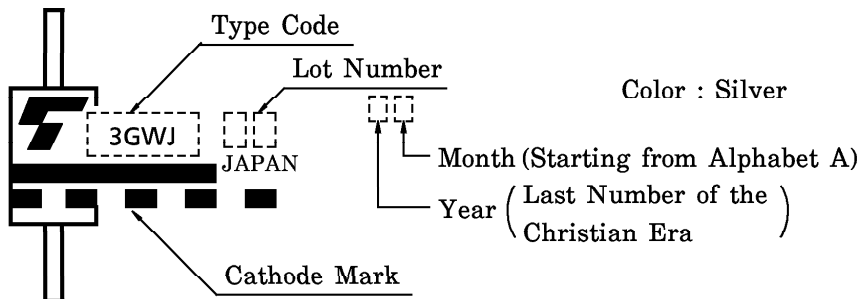
Weight : 1.18g

ELECTRICAL CHARACTERISTICS (Ta = 25°C)

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Peak Forward Voltage	V_{FM}	$I_{FM}=3.0A$	—	—	0.55	V
Repetitive Peak Reverse Current	I_{RRM}	$V_{RRM}=40V$	—	—	3.0	mA
Reverse Recovery Time	t_{rr}	$I_F=1.0A, di/dt = -30A/\mu s$	—	—	35	ns
Junction Capacitance	C_j	$V_R=10V, f=1MHz$	—	132	—	pF
Thermal Resistance (Note 1)	$R_{th(j-a)}$	Junction to Ambient	—	—	57	°C/W
Thermal Resistance (Note 1)	$R_{th(j-l)}$	Junction to Lead	—	—	14	°C/W

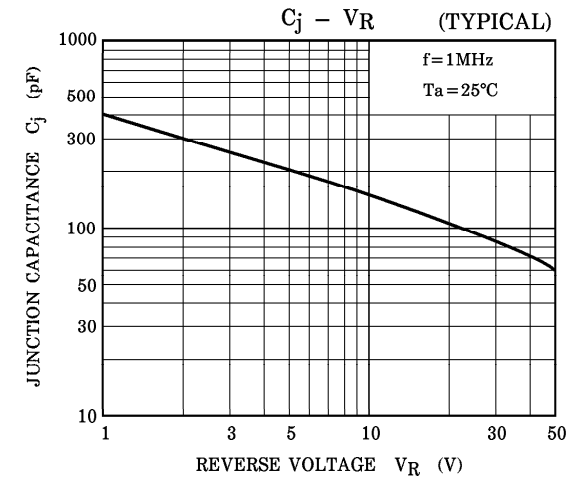
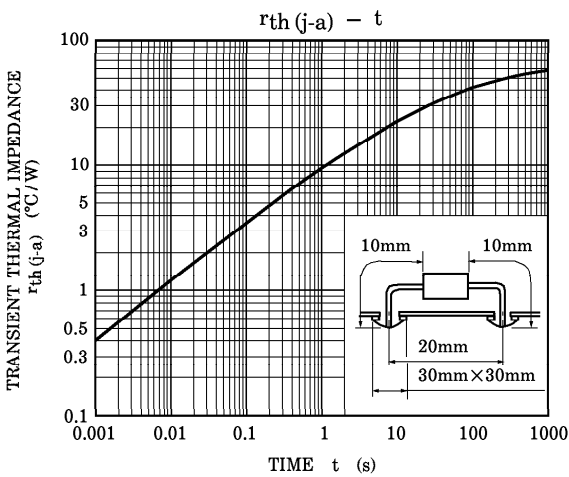
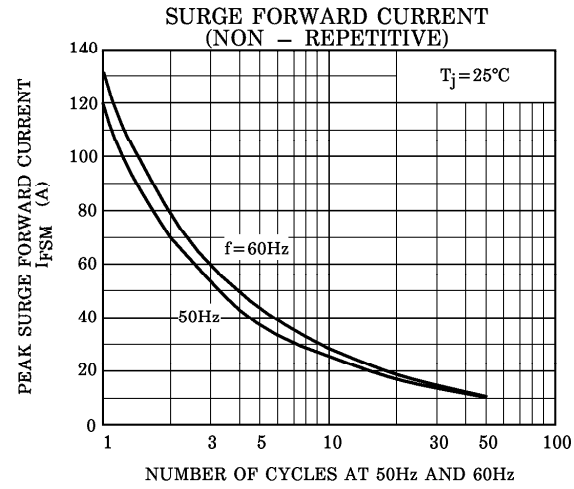
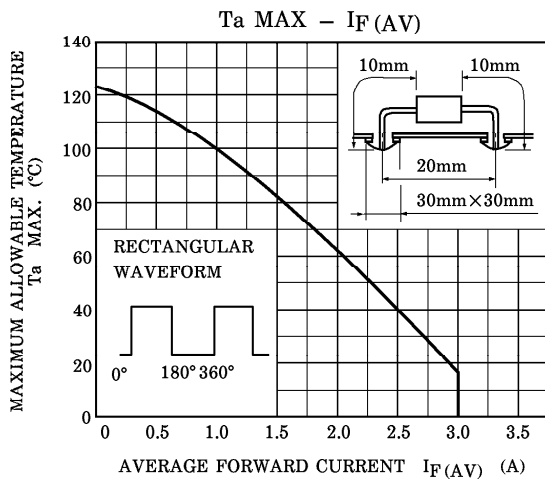
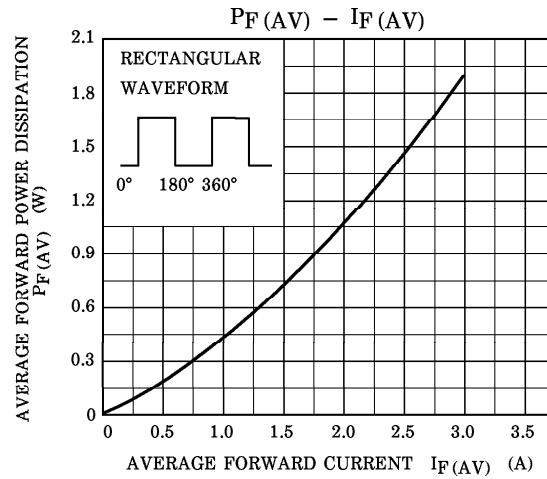
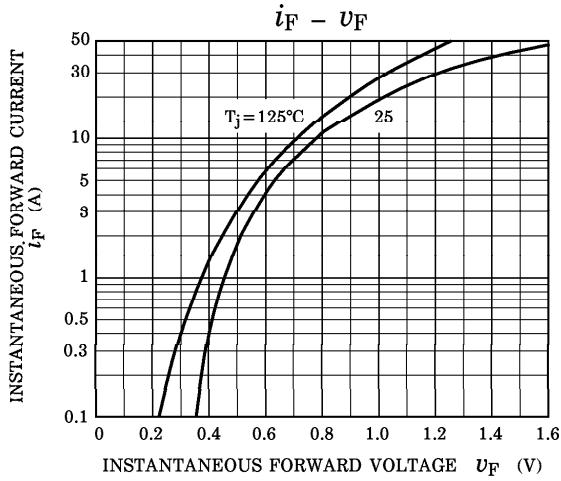
Note 1 : THERMAL RESISTANCE

MARKING



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