TOSHIBA SCHOTTKY BARRIER RECTIFIER SCHOTTKY BARRIER TYPE

3 G W J 4 2

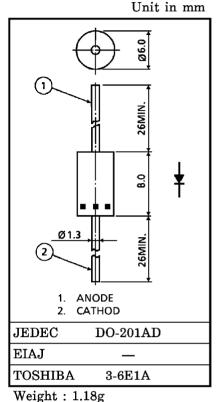
HIGH SPEED RECTIFIER APPLICATIONS

Average Forward Current : $I_{F(AV)} = 3.0A$

• Low Forward Voltage : V_{FM} = 0.55V (Max.)

MAXIMUM RATINGS

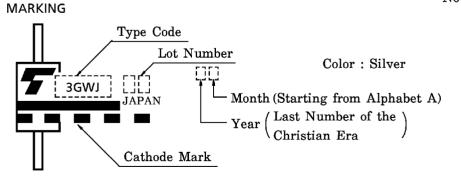
CHARACTERISTIC	SYMBOL	RATING	UNIT	
Repetitive Peak Reverse Voltage	v_{RRM}	40	V	
Average Forward Current	I _{F (AV)}	3.0	A	
Peak One Cycle Surge Forward	T	120 (50Hz)	A	
Current (Non-Repetitive)	Non-Repetitive) IFSM		A	
Junction Temperature	T_{j}	-40~125	°C	
Storage Temperature Range	$\mathrm{T_{stg}}$	-40~125	°C	

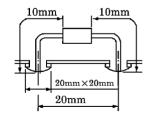


ELECTRICAL CHARACTERISTICS (Ta = 25°C)

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

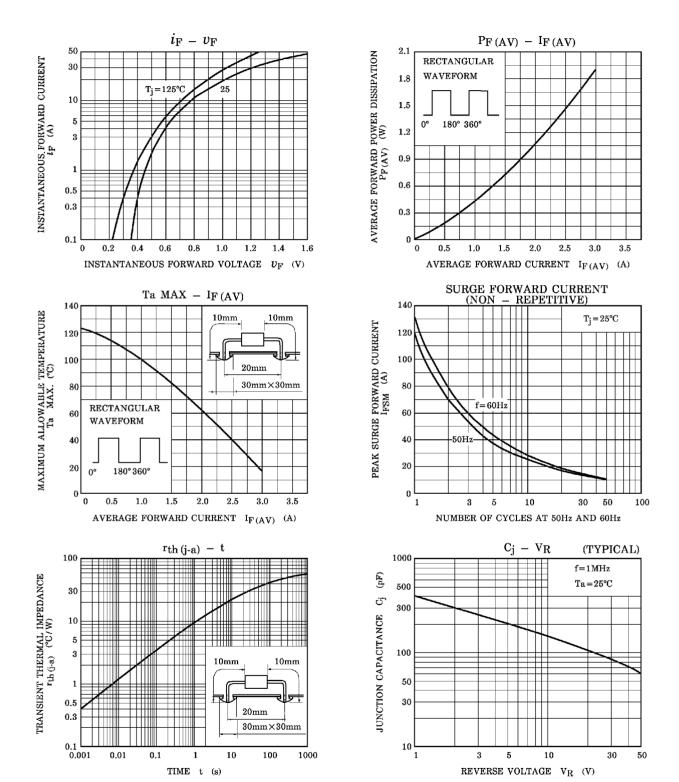
Note 1: THERMAL RESISTANCE





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