#### TOSHIBA FAST RECOVERY RECTIFIER SILICON DIFFUSED TYPE

# 3 G H 4 5

#### SWITCHING TYPE POWER SUPPLY APPLICATIONS

 $: V_{RRM} = 400V$ Repetitive Peak Reverse Voltage

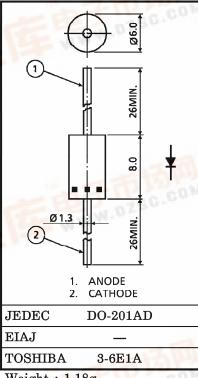
Average Forward Current  $: I_{F(AV)} = 3.0A$ 

Very Fast Reverse-Recovery Time : t<sub>rr</sub> = 200ns (Max.) WWW.DZSG.CO

#### **MAXIMUM RATINGS**

CHARACTERISTIC	SYMBOL	RATING	UNIT	
Repetitive Peak Reverse Voltage	$v_{RRM}$	400	V	
Average Forward Current (Ta=25°C)	I <sub>F (AV)</sub>	3.0	A	
Peak One Cycle Surge Forward	T-0			
Current (Non-Repetitive)	$I_{FSM}$	77 (60Hz)	A	
Junction Temperature	$T_j$	-40~150	$^{\circ}\mathrm{C}$	
Storage Temperature Range	$\mathrm{T_{stg}}$	-40~150	$^{\circ}\mathrm{C}$	

### Unit in mm

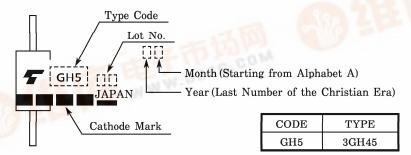


Weight: 1.18g

## ELECTRICAL CHARACTERISTICS (Ta = 25°C)

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Peak Forward Voltage	$V_{\mathbf{FM}}$	$I_{\text{FM}} = 3.0 \text{A}$	_	_	1.1	V
Repetitive Peak Reverse Current	I <sub>RRM</sub>	$V_{RRM} = 400V$	_	_	100	$\mu$ A
Reverse Recovery Time	$ m t_{rr}$	$I_F=1A$ , di/dt= $-30A/\mu s$	_	_	200	ns
Forward Recovery Time	$t_{fr}$	$I_{ m F}$ = 1.0A	_	_	400	ns
Thermal Resistance	$ m R_{th~(j-c)}$	Junction to Ambient	_	_	38	°C/W
M. 11.			= 1	3	OZSC	COM
Marking						
Type Code	_					

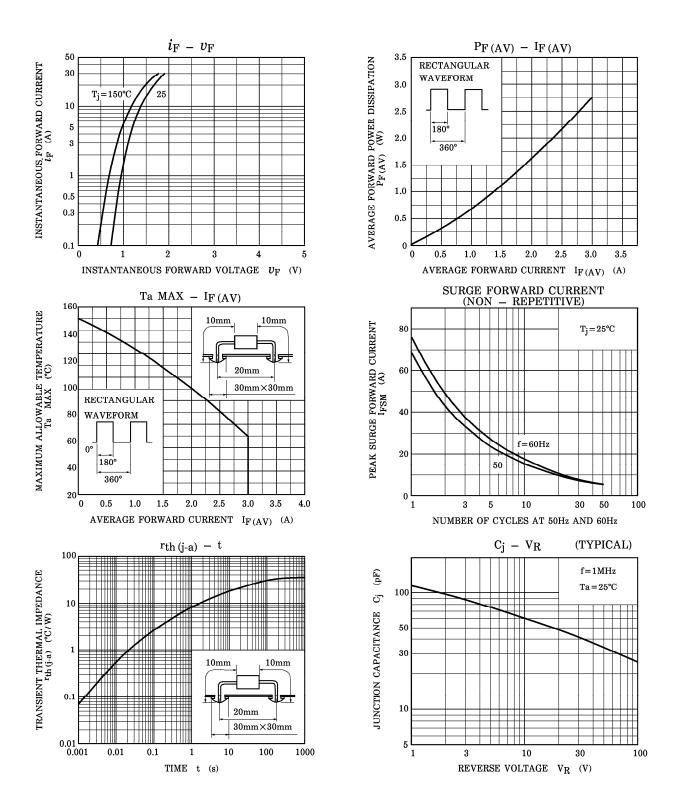
# Marking



Color: Silver

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**TOSHIBA** 3GH45



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