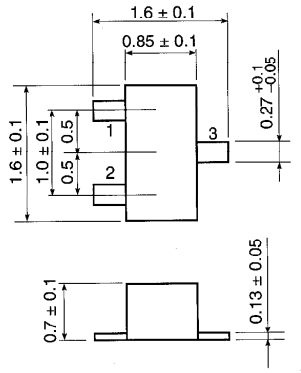
TOSHIBA DIODES FOR PROTECTING AGAINST ESD EPITAXIAL PLANAR TYPE

DF3A6.8FE

DIODES FOR PROTECTING AGAINST ESD

Unit in mm

- Because two devices are mounted on an ultra compact package, it is possible to allow reducing the number of the parts and the mounting cost.
- Zener Voltage correspond to E24 Series.



1. CATHODE1
2. CATHODE2
3. ANODE

ESM	
JEDEC	—
EIAJ	—
TOSHIBA	1-2SA1A

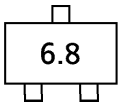
MAXIMUM RATINGS (Ta = 25°C)

CHARACTERISTIC	SYMBOL	RATING	UNIT
Power Dissipation	P	100	mW
Junction Temperature	T_j	125	°C
Storage Temperature Range	T_{stg}	−55~125	°C

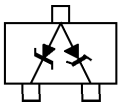
ELECTRICAL CHARACTERISTICS (Ta = 25°C)

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Zener Voltage	V_Z	I_Z = 5 mA	6.4	6.8	7.2	V
Dynamic Impedance	Z_Z	I_Z = 5 mA	—	10	—	Ω
Knee Dynamic Impedance	Z_{ZK}	I_Z = 0.5 mA	—	30	—	Ω
Reverse Current	I_R	V_R = 5 V	—	—	0.5	μA

MARKING

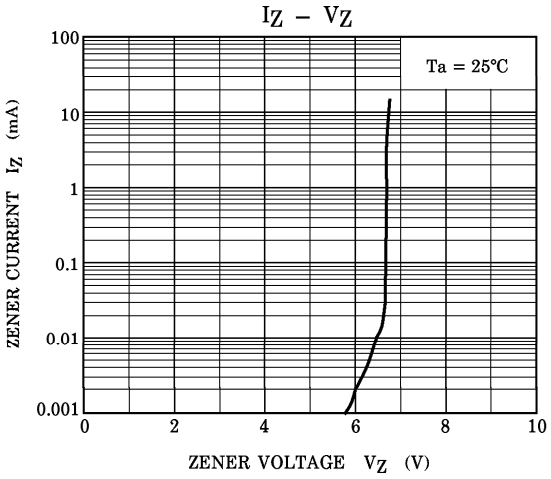


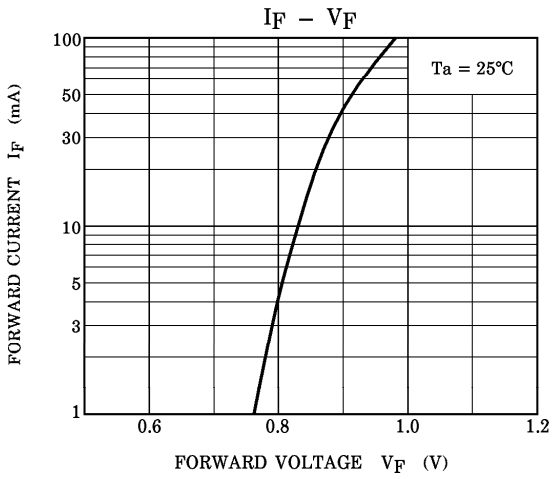
EQUIVALENT CIRCUIT (TOP VIEW)



961001EAA1

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● The information contained herein is subject to change without notice.


$I_Z - V_Z$
Ta = 25°C
ZENER CURRENT I_Z (mA)
100
10
1
0.1
0.01
0.001
0
2
4
6
8
10
ZENER VOLTAGE V_Z (V)


$I_F - V_F$
Ta = 25°C
FORWARD CURRENT I_F (mA)
100
50
30
10
5
3
1
0.6
0.8
1.0
1.2
FORWARD VOLTAGE V_F (V)