TOSHIBA DIODES FOR PROTECTING AGAINST ESD EPITAXIAL PLANAR TYPE

01ZA8.2

DIODES FOR PROTECTING AGAINST ESD

 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.

MAXIMUM RATINGS (Ta = 25°C)

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

1. CATHODE1
2. CATHODE2
3. ANODE

ESM

JEDEC —

EIAJ —

TOSHIBA 1-2SA1A

ELECTRICAL CHARACTERISTICS (Ta = 25°C)

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Zener Voltage	$V_{\mathbf{Z}}$	$I_Z = 5 \text{mA}$	7.7	8.2	8.7	V
Dynamic Impedance	$z_{ m Z}$	$I_Z = 5$ mA	_	15	_	Ω
Knee Dynamic Impedance	z_{ZK}	$I_{ m Z}\!=\!0.5{ m mA}$	_	20	_	Ω
Reverse Current	$I_{\mathbb{R}}$	$V_R = 6.5V$	_	_	0.5	μ A

MARKING

EQUIVALENT CIRCUIT (TOP VIEW)





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