**TOSHIBA** DF2S12FU

TOSHIBA DIODES FOR PROTECTING AGAINST ESD EPITAXIAL PLANAR TYPE

# **DF2S12FU**

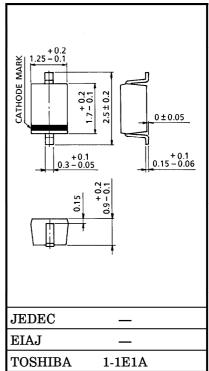
#### DIODES FOR PROTECTING AGAINST ESD

Unit in mm

- Two-pin ultra-small packages are suitable for higher mounting densities.
- Small Total Capacitance : C<sub>T</sub> = 15 pF (Typ.)
- Zener Voltage correspond to E24 Series.

## MAXIMUM RATINGS (Ta = 25°C)

CHARACTERISTIC	SYMBOL	RATING	UNIT
Power Dissipation	P	150	mW
Junction Temperature	$T_{j}$	125	°C
Storage Temperature Range	$\mathrm{T_{stg}}$	-55~125	$^{\circ}\mathrm{C}$



## ELECTRICAL CHARACTERISTICS (Ta = 25°C)

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Zener Voltage	$V_{\mathbf{Z}}$	$I_{ m Z}=5~{ m mA}$	11.4	12.0	12.6	V
Dynamic Impedance	$z_{\rm Z}$	$I_{ m Z}=5~{ m mA}$	_	10	_	Ω
Knee Dynamic Impedance	$z_{ZK}$	$I_{ m Z}=0.5{ m mA}$	_	20	-	Ω
Reverse Current	$I_{\mathbf{R}}$	$V_{R} = 9 V$	_	_	0.05	$\mu$ A
Total Capacitance	$\mathbf{c_T}$	$V_R = 0 V$	_	15	_	pF

## MARKING

## **EQUIVALENT CIRCUIT (TOP VIEW)**





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