

CONSTANT VOLTAGE REGULATION APPLICATION AND
ESD PROTECTION.

FEATURES

- Very small package.
- High reliability.
- Transient protection for high-speed data line to IEC61000-4-2(ESD) 15kV(Aiv), 8kV (Contact).
- Low capacitance.
- Low leakage current.
- Zener voltage tolerance : $\pm 2\%$

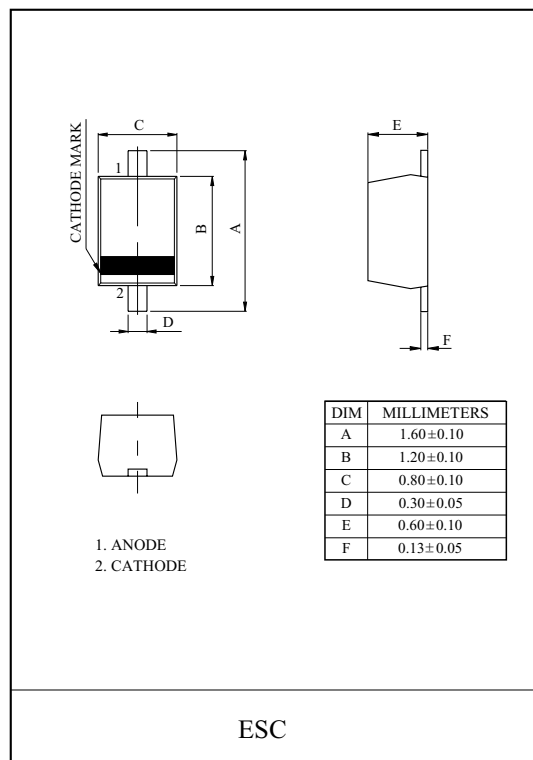
APPLICATIONS

- Constant voltage regulation.
- ESD protection.
- Suitable for portable instruments.
- High-speed data lines.

MAXIMUM RATING (Ta=25 °C)

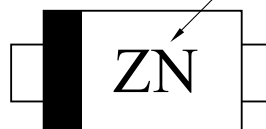
CHARACTERISTIC	SYMBOL	RATING	UNIT
Power Dissipation	P_D^*	150*	mW
Junction Temperature	T_j	150	°C
Storage Temperature Range	T_{stg}	-55 ~ 150	°C

* Mounted on a glass epoxy circuit board of 20×20 mm,
pad dimension of 4×4 mm.



Marking

Type Name

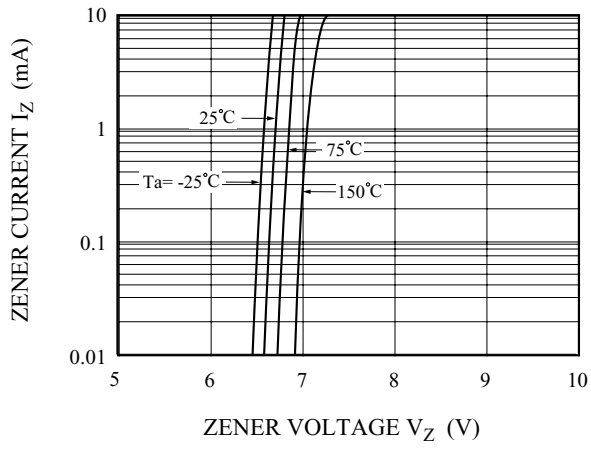


ELECTRICAL CHARACTERISTICS (Ta=25 °C)

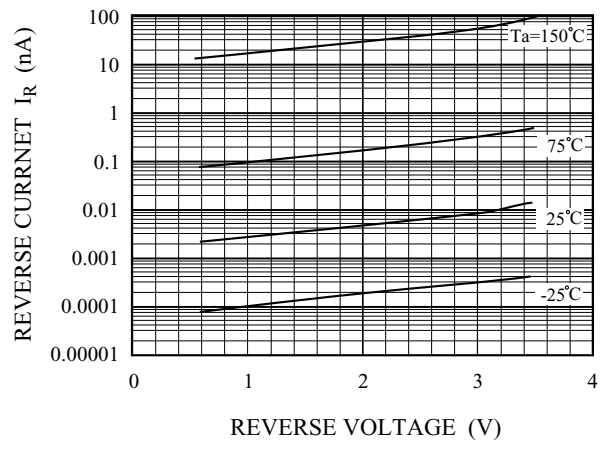
CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Zener Voltage	V_Z	$I_Z=5\text{mA}$	6.650	-	6.930	V
Dynamic Impedance	Z_Z	$I_Z=5\text{mA}$	-	-	40	Ω
Knee Dynamic Impedance	Z_{ZK}	$I_Z=0.5\text{mA}$	-	-	60	Ω
Reverse Current	I_R	$V_R=3.5\text{V}$	-	-	0.5	μA
Total capacitance	C_t	$V_R=0.5\text{V}, f=1\text{MHz}$	-	-	17	pF
		$V_R=2.5\text{V}, f=1\text{MHz}$	-	-	13	

KDZ6.8CE

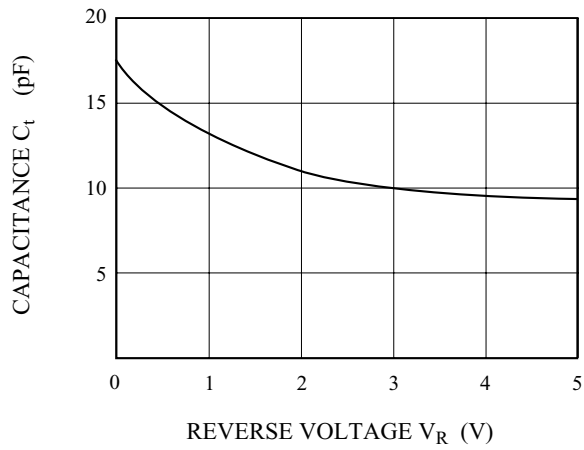
$V_Z - I_Z$



$I_R - V_R$



$C_t - V_R$



$P_D - T_a$

