

KEC

SEMICONDUCTOR
TECHNICAL DATA

PF1007UDF12

EMI Filtering TVS

EMI Filtering TVS For Data Line

FEATURES

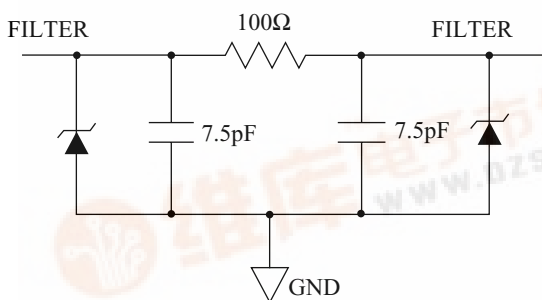
- EMI/RFI filtering.
- ESD Protection to IEC 61000-4-2 Level 4.
- Low insertion loss.
- Good attenuation of high frequency signals.
- Low clamping voltage.
- Low operating and leakage current.
- Six elements in one package

MAXIMUM RATING (Ta=25℃)

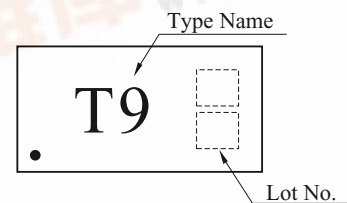
CHARACTERISTIC	SYMBOL	RATING	UNIT
DC Power Per Resistor	P_R	100	mW
Power Dissipation	$*P_D$	600	
Junction Temperature	T_j	150	℃
Storage Temperature	T_{stg}	-55~150	℃

* Total Package Power Dissipation

EQUIVALENT CIRCUIT

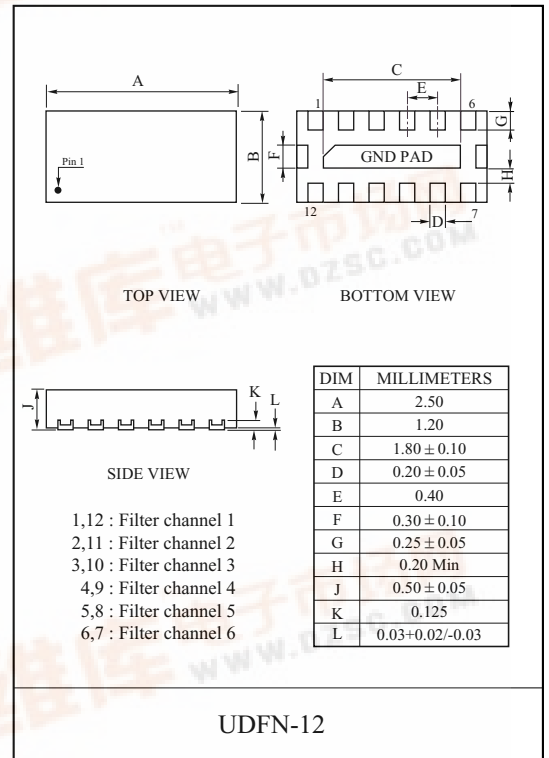


MARKING



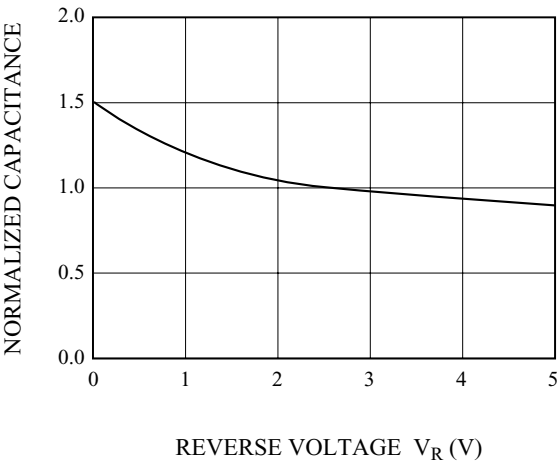
ELECTRICAL CHARACTERISTICS (Ta=25℃)

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Reverse Stand-Off Voltage	V_{RWM}	-	-	-	5	V
Reverse Breakdown Voltage	V_{BR}	$I_t=1mA$	6	-	-	V
Reverse Leakage Current	I_R	$V_{RWM}=3V$	-	-	1	μA
Cutoff Frequency	f_{3dB}	$V_R=0V, Z_{SOURCE}=50\Omega, Z_{LOAD}=50\Omega$	-	200	-	MHz
Resistance	R	Between Input and Output	-	100	-	Ω
Capacitance	$C_{2.5V}$	$V_R=2.5V$, Between I/O Pins and GND	-	15	-	pF

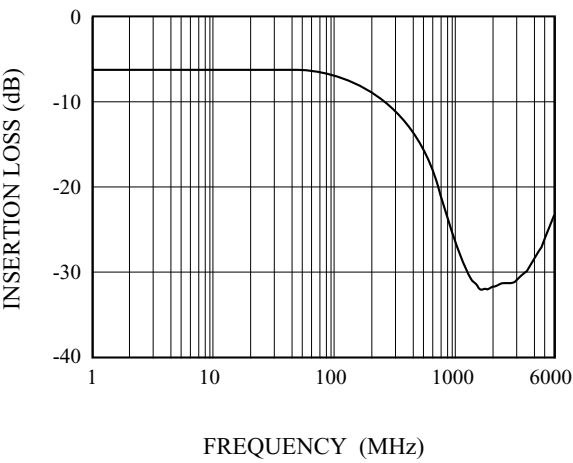


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$C_J - V_R$



$S_{21} - F$



$I_R - V_R$

