5 é / Descriptions

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DFN1006-2L Plastic Package 1-Line,Bi-directional , ESD Protection Diode.

¤ ª / Features

‹ Stand-off voltage: ±4.5V Max.

‹ Transient protection for each line according to

IEC61000-4-2(ESD): ±30kV (contact)

IEC61000-4-4 (EFT): 40A (5/50ns)

IEC61000-4-5(surge): 37A (8/20 s)

‹ Ultra-low capacitance: CJ = 65pF typ.

‹ Low leakage current:

‹ Low clamping voltage: VCL =7.0V typ. @ IPP = 16A (TLP)

‹ Solid-state silicon technology

‹ HF Product

Ð ÷ / Applications

‹ Cellular handsets

‹ Tablets

‹ Laptops

‹ Other portable devices

‹ Network communication devices

Ã W] Ô · / Equivalent Circuit

• Û - æ / Pinning

, M V / Marking

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See Marking Instructions.

Ã a ? d / Absolute Maximum Ratings(Ta=25 ;)

@ *f* Parameter	… Z Symbol	*f* › Rating	% y Unit
Peak Pulse Power(t_p = 8/20 s)	P_{PK}	370	W
Peak Pulse Current(t_p = 8/20 s)	I_{PP}	37	A
ESD according to IEC61000-4-2 air discharge	V_{ESD}	±30	KV
ESD according to IEC61000-4-2 contact discharge		±30	
Junction temperature	T_J	125	
Operating temperature	T_{OP}	-40~85	
Lead temperature	T_L	260	
Storage Temperature	T_{STG}	-55~+150	

Definitions of elect rical characteristics

@ *f* Parameter	… Z Symbol	y ¡ Ú ^ Test Conditions	Â 4 › Min	Á º › Typ	Â Ý › Max	% y Unit
Reverse maximum working voltage	V_{RWM}				±4.5	V
Reverse leakage current	I_R	V_{RWM} = ±4.5V			0.1	μA
Reverse breakdown voltage	V_{BR}	I_T=1				

Ô ? d • Ž ¢ / Electrical Characteristic Curve(Ta=25 ; g unless otherwise noted)

Ô ? d • Ž ¢ / Electrical Characteristic Curve c Ta=25 ; g unless otherwise noted d

Ø ¤ =) ¢ / Package Dimensions