

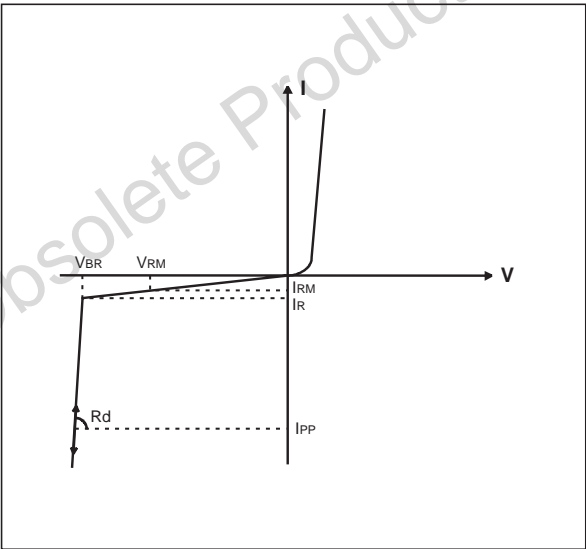
EMIF01-5250SC5

ABSOLUTE MAXIMUM RATINGS (T_{amb} = 25 °C)

| Symbol | Parameter and test conditions | Value | Unit |
|------------------|---|-------------|------|
| V _{PP} | ESD discharge IEC61000-4-2, air discharge | 15 | kV |
| | ESD discharge IEC61000-4-2, contact discharge | 8 | |
| T _j | Junction temperature | 150 | °C |
| T _{op} | Operating temperature range | -30 to + 85 | °C |
| T _{stg} | Storage temperature range | -55 to +150 | °C |
| T _L | Lead temperature for soldering during 10s | 260 | °C |

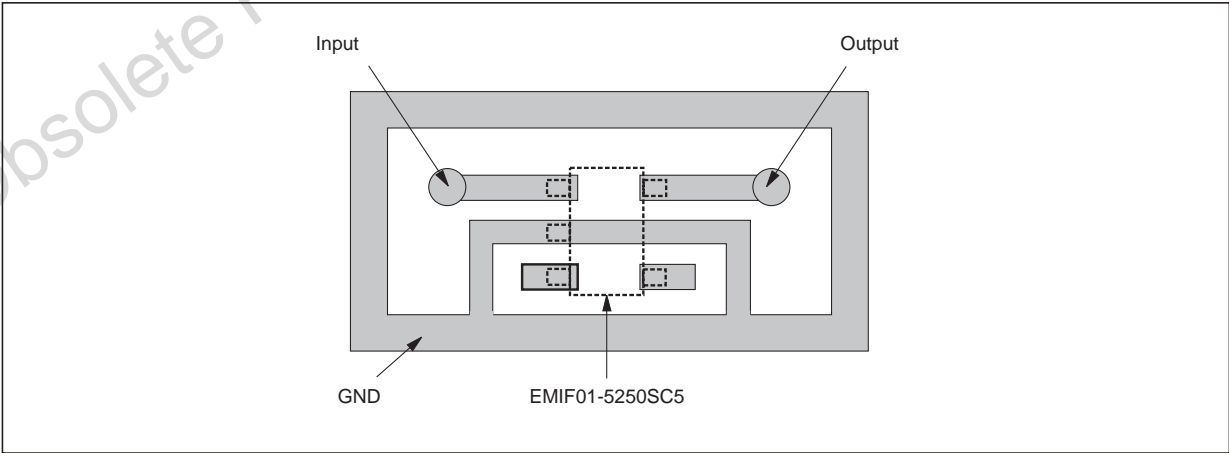
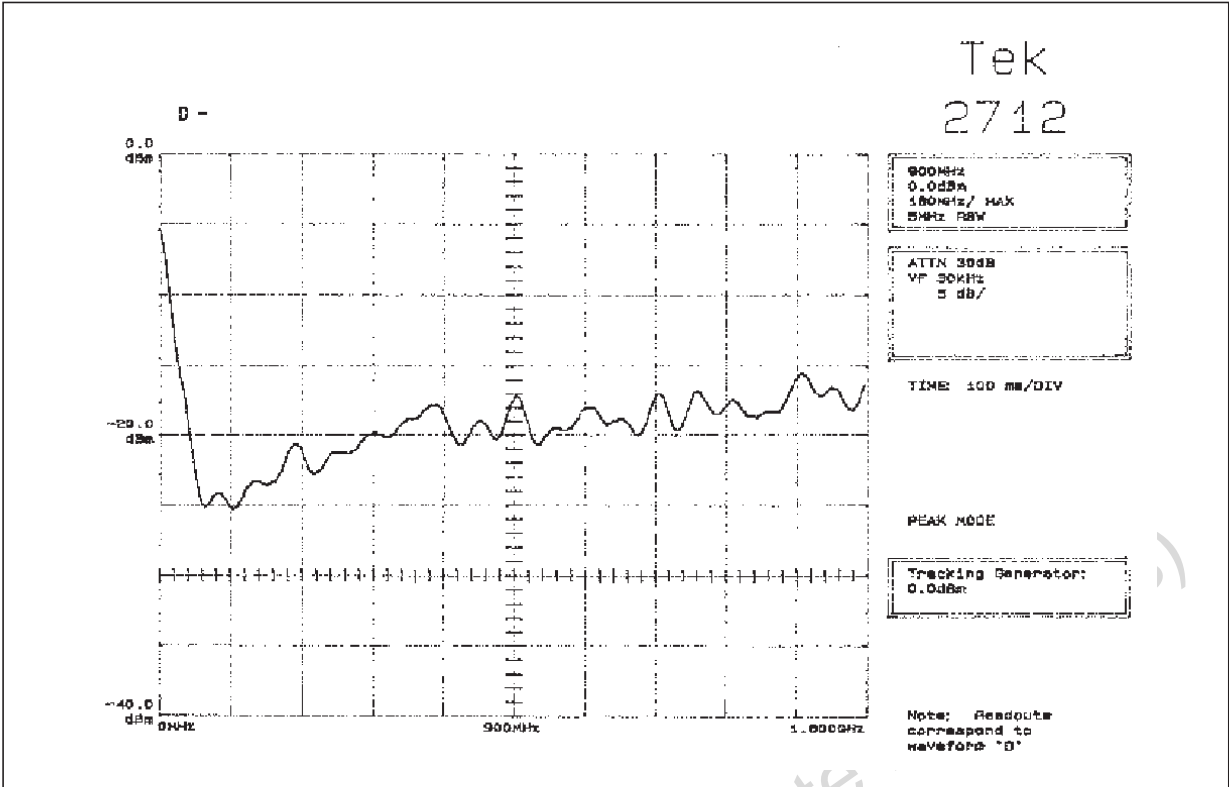
ELECTRICAL CHARACTERISTICS of the
ZENER DIODE (T_{amb} = 25 °C)

| Symbol | Parameter |
|-----------------|-----------------------|
| V _{BR} | Breakdown voltage |
| I _{RM} | Leakage current |
| R _d | Dynamic impedance |
| C _Z | Zener capacitance |
| trr | Reverse recovery time |



| Symbol | Test conditions | Min. | Typ. | Max. | Unit |
|-----------------|---|------|------|------|------|
| V _{BR} | I _R = 1 mA | 6 | 7 | 8 | V |
| I _{RM} | V _{RM} = 3V | | | 1 | μA |
| R _d | I _{pp} = 10 A, t _p = 2.5 μs | | 0.55 | | Ω |
| C _Z | 0 V bias, V _{RMS} = 30 mV, F = 1 MHz | | 90 | | pF |
| trr | I _F = 10 mA, dI _F /dt = 20 A/μs, R _L = 100 Ω, T _j = 25 °C | | 40 | | ns |

ATTENUATION BEHAVIOR



ESD BEHAVIOR

Fig 2 : ESD measurement conditions

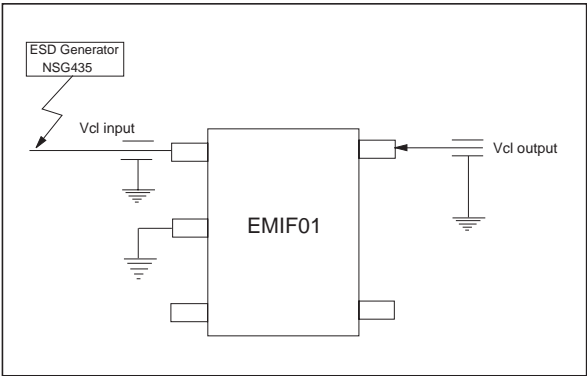


Fig 3 : ESD behavior on IEC61000-4-2 air discharge at input (typical value)

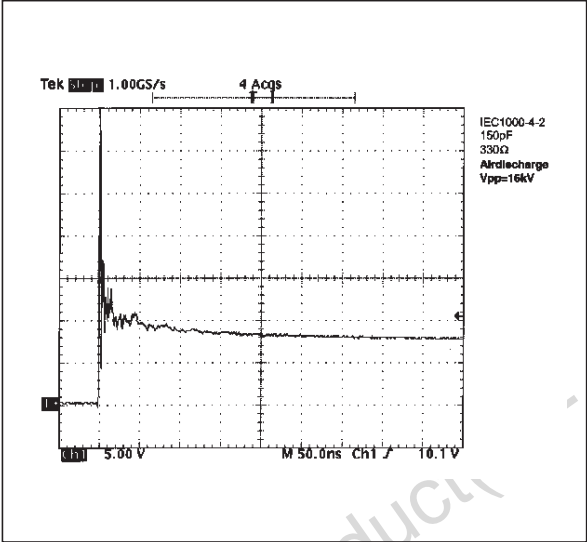
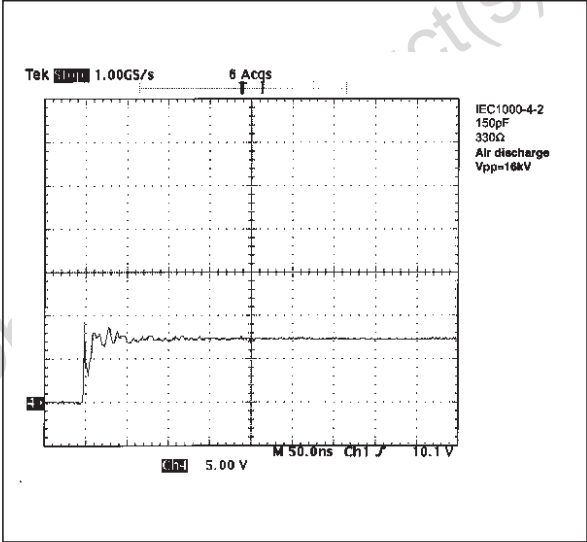
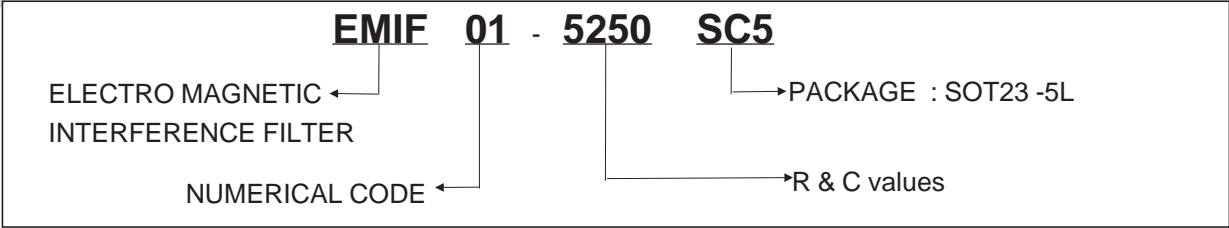


Fig 4 : ESD behavior on IEC61000-4-2 air discharge at output (typical value)



Figures 3 and 4 show the EMIF01-5250SC5 response to air and contact discharge conditions respectively at input and output pins. These figures indicate that the response is spontaneous and the output level is kept at safe operating voltages.

ORDER CODE



MARKING

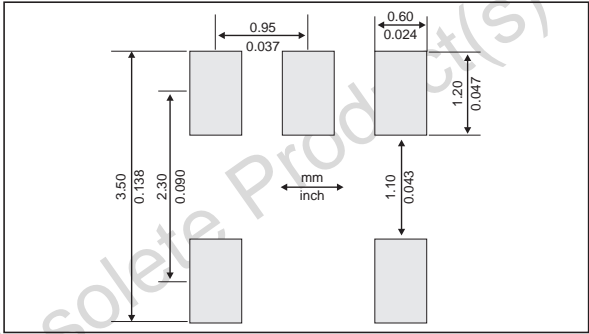
| Type & order code | Marking | Packaging | Base qty (pcs) |
|-------------------|---------|-------------|----------------|
| EMIF01-5250SC5 | EMIF | tape & reel | 3000 |

PACKAGE MECHANICAL DATA

SOT23-5L

| REF. | DIMENSIONS | | | | | |
|------|-------------|------|------|--------|--------|--------|
| | Millimeters | | | Inches | | |
| | Min. | Typ. | Max. | Min. | Typ. | Max. |
| A | 0.90 | | 1.45 | 0.035 | | 0.057 |
| A1 | 0 | | 0.10 | 0 | | 0.004 |
| A2 | 0.90 | | 1.30 | 0.035 | | 0.0512 |
| b | 0.35 | | 0.50 | 0.0137 | | 0.02 |
| c | 0.09 | | 0.20 | 0.004 | | 0.008 |
| D | 2.80 | | 3.00 | 0.11 | | 0.118 |
| E | 1.50 | | 1.75 | 0.059 | | 0.0689 |
| e | | 0.95 | | | 0.0374 | |
| H | 2.60 | | 3.00 | 0.102 | | 0.118 |
| L | 0.10 | | 0.60 | 0.004 | | 0.024 |
| θ | | | 10° | | | 10° |

FOOT PRINT



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