

MDE Semiconductor, Inc.

Single Minded Focus on Surge Suppression Solutions

October 28, 2005

To whom it may concern:

Product Description: Transient Voltage Suppressors (TVS) Diodes

Manufacture / Vendor: MDE Semiconductor, Inc.

LEAD FREE COMPONENTS

1. Axial lead Device: Plating component is 100% Sn, meeting the lead free standards.
2. SMD Device: Plating component is 100% Sn, meeting the lead free standards.
3. Solder wafer /solder paste: The (EU) RoHS Directive 2002/95/EC standard , solder wafer and solder paste are exempt from the requirements ,the detail as below :

ANNEX

Application of lead ,mercury, cadmium and hexavalent chromium, which are exempted from the requirements of article4 (1) 7.---lead in high melting temperature type solders (i.e. tin-lead solder alloys containing more than 85% lead)

MDE Semiconductor, Inc. certifies that all Transient Suppressor Diodes (TVS) diodes are in compliance with RoHS and lead free standards. This RoHS compliant product line has been in place since December 1, 2004.

Attached to this letter is a list of the devices being produced that meet the RoHS and Lead Free Standard.

Sincerely,



Bernard R Mc Carthy
Quality Assurance Manager



MDE Semiconductor, Inc.

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TRANSIENT VOLTAGE SUPPRESSOR (TVS) DIODES

Pppm (W)	Device Series	Package		V _{RWM} Range (V)	V _(BR) Range (V)
		Family	Type		
400	BZW04-5V8 / B - BZW04-376 / B	Axial	DO-41(DO-204AL)	5.8 - 376	6.45 - 462
	P4KE6.8A/CA - P4KE550A/CA	Axial	DO-41(DO-204AL)	5.8 - 467	6.45 - 577.5
	P4SMA-6.8A/CA - P4SMA-550A/CA	SMD	DO-214AC (SMA)	5.8 - 467	6.45 - 577.5
	SMAJ5.0A / CA - SMAJ440A / CA	SMD	DO-214AC (SMA)	5.0 - 440	6.4 - 543
500	SA5.0A / CA - SA180A / CA	Axial	DO-15 (DO-204AC)	5.0 - 180	6.4 - 233
	SAC5.0 - SAC50	Axial	DO-15 (DO-204AC)	5.0 - 51	7.6 - 55.5
600	P6KE6.8A / CA - P6KE550A / CA	Axial	DO-15 (DO-204AC)	5.8 - 467	6.45 - 577.5
	P6SMB-6.8A/CA - P6SMB-550A/CA	SMD	DO-214AA (SMB)	5.8 - 467	6.45 - 577.5
	SMBJ5.0A / CA - SMBJ440A / CA	SMD	DO-214AA (SMB)	5.0 - 440	6.4 - 543
	SM6T6V8A / CA - SM6T220A / CA	SMD	DO-214AA (SMB)	5.8 - 188	6.45 - 231
1500	1.5KE6.8A / CA - 1.5KE550A / CA	Axial	DO-201	5.8 - 467	6.45 - 577.5
	1.5SMCJ6.8A / CA - 1.5SMCJ550A / CA	SMD	DO-214AB (SMC)	5.8 - 467	6.45 - 577.5
	SMCJ5.0A / CA - SMCJ440A / CA	SMD	DO-214AB (SMC)	5.0 - 440	6.4 - 543
	LCE6.5A - LCE28A	Axial	DO-201	6.5 - 28	7.22 - 34.4
	1N6267 - 1N6303	Axial	DO-201	5.5 - 171	6.12 - 210
	1N6373 - 1N6381	Axial	DO-201	5.0 - 45	6.0 - 52.9
	1N6382 - 1N6389	Axial	DO-201	8.0 - 45	9.4 - 52.9
	ICTE5.0 - ICTE45	Axial	DO-201	5.0 - 45	6.0 - 52.9
	ICTE8C - ICTE45C	Axial	DO-201	8.0 - 45	9.4 - 52.9
	MPTE-5 - MPTE-45	Axial	DO-201	5.0 - 45	6.0 - 52.9
	MPTE-8C - MPTE-45C	Axial	DO-201	8.0 - 45	9.4 - 52.9
	SM15T6V8A / CA - SM15T220A / CA	SMD	DO-214AB (SMC)	5.8 - 188	6.45 - 231

Note: C or CA suffix denotes Bi-directional. Electrical characteristics apply both directions.

A denotes V_(BR) Tolerance 5%, Blank denotes V_(BR) Tolerance 10%

Certified RoHS Compliant

UL File # E223026

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TRANSIENT VOLTAGE SUPPRESSOR (TVS) DIODES

P _{PPM} (W)	Device Series	Package		V _{RWM} Range (V)	V _(BR) Range (V)
		Family	Type		
3000	3KP5.0A / CA - 3KP180A / CA	Axial	P-600	5.0 - 180	6.4 - 233
	3.0SMCJ5.0A / CA - 3.0SMCJ170A / CA	SMD	DO-214AB (SMC)	5.0 - 170	6.4 - 209
	SMDJ5.0A / CA - SMDJ170A / CA	SMD	DO-214AB (SMC)	5.0 - 170	6.4 - 209
	SMLJ5.0A / CA - SMLJ170A / CA	SMD	DO-214AB (SMC)	5.0 - 170	6.4 - 209
5000	5.0 SMDJA / CA - 5.0 SMDJ170A / CA	SMD	DO-214AB (SMC)	20 - 170	22.2 - 209
	5KP5.0A / CA - 5KP220A / CA	Axial	P-600	5.0 - 220	6.4 - 270
15000	15KP17A / CA - 15KP280A / CA	Axial	P-600	17 - 280	18.9 - 319
	15KW17A / CA - 15KW280A / CA	Axial	P-600	17 - 280	18.9 - 319
	15KPA17A / CA - 15KPA280A / CA	Axial	P-600	17 - 280	18.9 - 319
20000	20KP20A / CA - 20KP300A / CA	Axial	P-600	20 - 300	25.6 - 368.4
	20KW20A / CA - 20KW300A / CA	Axial	P-600	20 - 300	25.6 - 368.4
	20KPA20A / CA - 20KPA300A / CA	Axial	P-600	20 - 300	25.6 - 368.4
30000	30KP30A / CA - 30KP288A / CA	Axial	P-600	30 - 288	38.4 - 353.4
	30KW30A / CA - 30KW288A / CA	Axial	P-600	30 - 288	38.4 - 353.4
	30KPA30A / CA - 30KPA288A / CA	Axial	P-600	30 - 288	38.4 - 353.4

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