

1.5KE100A-B 1.5KE100A-T 1.5KE100CA-B 1.5KE100CA-T 1.5KE10A-B 1.5KE10A-T 1.5KE10CA-B 1.5KE10CA-T 1.5KE110A-B 1.5KE110A-T 1.5KE110CA-B 1.5KE110CA-T 1.5KE11A-B 1.5KE11A-T 1.5KE11CA-B 1.5KE11CA-T 1.5KE120A-B 1.5KE120A-T 1.5KE120CA-B 1.5KE120CA-T 1.5KE12A-B 1.5KE12A-T 1.5KE12CA-B 1.5KE12CA-T 1.5KE130A-B 1.5KE130A-T 1.5KE13CA-B 1.5KE13CA-T 1.5KE13A-B 1.5KE13A-T 1.5KE13CA-B 1.5KE13CA-T 1.5KE150A-B 1.5KE150A-T 1.5KE150CA-B 1.5KE150CA-T 1.5KE15A-B 1.5KE15A-T 1.5KE15CA-B 1.5KE15CA-T 1.5KE160A-B 1.5KE160A-T 1.5KE160CA-B 1.5KE160CA-T 1.5KE16A-B 1.5KE16A-T 1.5KE16CA-B 1.5KE16CA-T 1.5KE170A-B 1.5KE170A-T 1.5KE170CA-B 1.5KE170CA-T 1.5KE180A-B 1.5KE180A-T 1.5KE180CA-B 1.5KE180CA-T 1.5KE18A-B 1.5KE18A-T 1.5KE18CA-B 1.5KE18CA-T 1.5KE200A-B 1.5KE200A-T 1.5KE200CA-B 1.5KE200CA-T 1.5KE20A-B 1.5KE20A-T 1.5KE20CA-B 1.5KE20CA-T 1.5KE220A-B 1.5KE220A-T 1.5KE220CA-B 1.5KE220CA-T 1.5KE22A-B 1.5KE22A-T 1.5KE22CA-B 1.5KE22CA-T 1.5KE24A-B 1.5KE24A-T 1.5KE24CA-B 1.5KE24CA-T 1.5KE250A-B 1.5KE250A-T 1.5KE250CA-B 1.5KE250CA-T 1.5KE27A-B 1.5KE27A-T 1.5KE27CA-B 1.5KE27CA-T 1.5KE300A-B 1.5KE300A-T 1.5KE300CA-B 1.5KE300CA-T 1.5KE30A-B 1.5KE30A-T 1.5KE30CA-B 1.5KE30CA-T 1.5KE33A-B 1.5KE33A-T 1.5KE33CA-B 1.5KE33CA-T 1.5KE350A-B 1.5KE350A-T 1.5KE350CA-B 1.5KE350CA-T 1.5KE36A-B 1.5KE36A-T 1.5KE36CA-B 1.5KE36CA-T 1.5KE39A-B 1.5KE39A-T 1.5KE39CA-B 1.5KE39CA-T 1.5KE400A-B 1.5KE400A-T 1.5KE400CA-B 1.5KE400CA-T 1.5KE43A-B 1.5KE43A-T 1.5KE43CA-B 1.5KE43CA-T 1.5KE47A-B 1.5KE47A-T 1.5KE47CA-B 1.5KE47CA-T 1.5KE51A-B 1.5KE51A-T 1.5KE51CA-B 1.5KE51CA-T 1.5KE56A-B 1.5KE56A-T 1.5KE56CA-B 1.5KE56CA-T 1.5KE62A-B 1.5KE62A-T 1.5KE62CA-B 1.5KE62CA-T 1.5KE68A-B 1.5KE68A-T 1.5KE68CA-B 1.5KE68CA-T 1.5KE6V8A-B 1.5KE6V8A-T 1.5KE6V8CA-B 1.5KE6V8CA-T 1.5KE75A-B 1.5KE75A-T 1.5KE75CA-B 1.5KE75CA-T 1.5KE7V5A-B 1.5KE7V5A-T 1.5KE7V5CA-B 1.5KE7V5CA-T 1.5KE82A-B 1.5KE82A-T 1.5KE82CA-B 1.5KE82CA-T 1.5KE8V2A-B 1.5KE8V2A-T 1.5KE8V2CA-B 1.5KE8V2CA-T 1.5KE91A-B 1.5KE91A-T 1.5KE91CA-B 1.5KE91CA-T 1.5KE9V1A-B 1.5KE9V1A-T 1.5KE9V1CA-B 1.5KE9V1CA-T

Part Number: **1.5KE Series TVS**
Weight (mg): 1200

Element	Material Group	Materials	CAS (if applicable)	Average mass homogeneous Material(%)	Percent of whole (%)	Mass (mg)	ppm Homogeneous Material	ppm overall
Chip	Silicon w/Metal	Si (95-98%)	7440-21-3	95.00%	0.21	2.52	950000	1995
		PbO (1~4%)	1317-36-8	4.00%			40000	84
		Ni (1%)	7440-02-0	1.00%			10000	21
Solder Paste	RoHS Exempt High Temperature	Pb	7439-92-1	92.50%	0.19	2.28	925000	1758
		Sn	7440-31-5	5.00%			50000	95
		Ag	7440-22-4	2.50%			25000	48
Leadframe & Clip	Copper Alloy	Cu (99.95%)	7440-50-8	99.95%	86.21	1034.57	999500	861711
		Zn (0.004%)	7440-66-6	0.01%			60	52
		Fe (0.01%)	7439-89-6	0.01%			100	86
		P (0.034%)	7723-14-0	0.03%			340	293
Encapsulation	Epoxy	Silica (SiO ₂) (60~80%)	14808-60-7	70.00%	12.39	148.63	700000	86701
		Polymer with 1-chloro-2,3-epoxypropane and formaldehyde (10~20%)	29690-82-2	15.00%			150000	18579
		Phenol-formaldehyde polymer (5~15%)	9003-35-4	10.00%			100000	12386
		Sb ₂ O ₃ (0~5%)	1309-64-4	2.50%			25000	3096
		TBBA-diglycidyl-ether oligomer (0~5%)	40039-93-8	2.50%			25000	3096
Lead Plating Finish	Tin Solder	Sn (>99.5%)	7440-31-5	100.00%	1.00	12	25000	10000
				Total	100.00	1200.00		1000000

Tolerance ±10%

This data is based on information provided by our suppliers. We believe it to be correct but do not routinely validate it by measurement. It is for guidance only and Diodes Inc. does not guarantee its absolute accuracy or completeness

* The Silicon Chip is doped at atomic levels with trace amounts of elements that may include Phosphorus, Boron, Arsenic, and other elements. Metalization may include Titanium, Nickel, Aluminum, Silver or Gold. These substances are not reported where their concentration is less than the minimum reportable level per the guidelines specified in the Tables of EIA JIG-101, [Material Composition Declaration for Electronic Products](#).

This product or product family does not contain any of the following substances except as **CURRENTLY** exempted by ELV II and RoHS and

Asbestos
Azo compounds
Cadmium and cadmium compounds
Certain Shortchain Chlorinated Paraffins
Chlorinated organic compounds
Hexavalent chromium compounds
Lead and lead compounds
Mercury and mercury compounds
Organic tin compounds

Ozone Depleting Substances - Class I (CFCs, HBFCs, etc.)
Ozone Depleting Substances - Class I (CFCs, HBFCs, etc.)
Ozone Depleting Substances - Class II (HCFCs)
Perfluorooctane Sulphonate (PFOS) or related compounds
Polybrominated biphenyls (PBB) and Polybrominated diphenyl ethers (PBDE) including **DecaBDE**
Polychlorinated Biphenyls (PCBs)
Polychlorinated Naphthalenes (> 3 chlorine atoms)
Radioactive Substances
Tributyl Tin (TBT) and Triphenyl Tin (TPT)
Tributyl Tin Oxide (TBTO)

REACH SVHCs:

Anthracene
4,4'- Diaminodiphenylmethane
Dibutyl phthalate
Cyclododecane
Cobalt dichloride
Diarsenic pentaoxide
Diarsenic trioxide
Sodium dichromate, dihydrate

5-tert-butyl-2,4,6-trinitro-m-xylene (musk xylene)
Bis (2-ethylhexyl)phthalate (DEHP)
Hexabromocyclododecane (HBCDD)
Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins)
Bis(tributyltin)oxide
Lead hydrogen arsenate
Triethyl arsenate
Benzyl butyl phthalate

Exemptions Applied:
RoHS Exemption 7a for Pb in High Temperature, High % Pb Solder is applied
RoHS Exemption 5 for Pb in glass in electronic components