

Kingtronics®

SZ4524

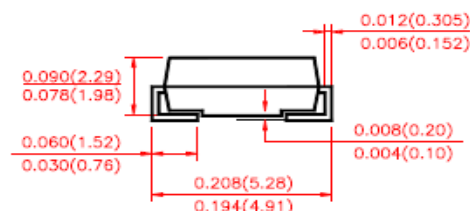
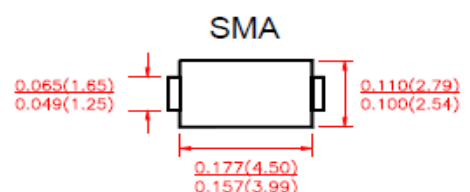
FEATURE

- * Complete Voltage Range 24 Volts
- * High peak reverse power dissipation
- * High reliability
- * Low leakage current
- * Pb / RoHS Free

MECHANICAL DATA

- * Case : SMA Molded plastic
- * Epoxy : UL94V-O rate flame retardant
- * Lead : Lead formed for Surface mount
- * Polarity : Color band denotes cathode end
- * Mounting position : Any
- * Weight : 0.064 grams

SURFACE MOUNT SILICON ZENER DIODES



Dimensions in inches and (millimeters)

Maximum RATINGS

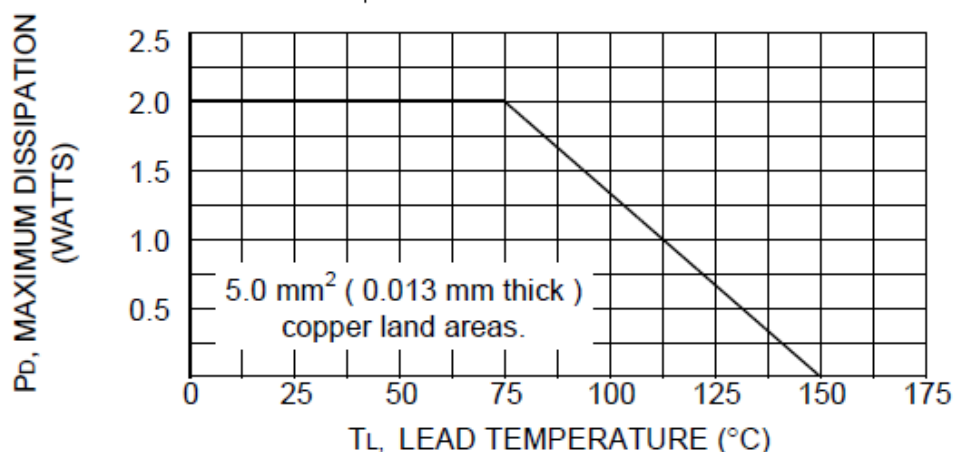
Rating at 25 °C ambient temperature unless otherwise specified

Rating	Symbols	Value	UNITS
DC Power Dissipation at $T_L = 75\text{ }^{\circ}\text{C}$ (Note1)	P_D	2.0	W
Maximum Forward Voltage at $I_F = 200\text{ mA}$	V_F	1.2	V
Junction Temperature Range	T_J	- 55 to + 150	$^{\circ}\text{C}$
Storage Temperature Range	T_S	- 55 to + 150	$^{\circ}\text{C}$

Note :

- (1) T_L = Lead temperature at 5.0 mm² (0.013 mm thick) copper land areas.

Fig. 1 POWER TEMPERATURE DERATING CURVE



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TYPE	Nominal Zener Voltage		Maximum Zener Impedance			Max. Reverse Leakage Current		Maximum DC Zener Current
	V _Z @ I _{ZT}	I _{ZT}	Z _{1T} @ I _{ZT}	Z _{1K} @ I _{ZK}	I _{ZK}	I _R @ V _R		I _{ZM}
	(V)	(mA)	Ω	Ω	mA	μA	V	(mA)
SZ4524	24	20.8	13	750	0.25	0.5	18.2	76

Notes :

(1) The type number listed have a standard tolerance on the nominal zener voltage of $\pm 5.0\%$, altered the fourth number of type from " 5 " for $\pm 5.0\%$ tolerance to be " 0 " for $\pm 10\%$ tolerance.

(2) " SZ " will be omitted in marking on the diode.

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