



DESIGN KIT

WE-TVSP Power TVS Diodes Low Power



SIZE:

DO-214AC / DO-214AA
(SMAJ / SMBJ)

TECHNICAL DATA:

V_{DC}^*	5 – 48 V
I_{PEAK}^*	5.2 – 65.3 A
V_{CLAMP}^*	9.2 – 77.4 V
P_{DISS}^*	400 / 600 W
Polarity:	uni and bidirectional

Order Code 824 599
Version 1.0

Design Kit

WE-TVSP Power TVS Diodes Low Power



400 W / DO-214AC (SMAJ)	824 500 500	824 500 600	824 500 121	824 520 500	824 520 600	824 520 121
	V_{DC} : 5 V	V_{DC} : 6 V	V_{DC} : 12 V	V_{DC} : 5 V	V_{DC} : 6 V	V_{DC} : 12 V
	I_{PEAK} : 43.5 A	I_{PEAK} : 38.8 A	I_{PEAK} : 20.1 A	I_{PEAK} : 65.3 A	I_{PEAK} : 58.3 A	I_{PEAK} : 30.2 A
	V_{CLAMP} : 9.2 V	V_{CLAMP} : 10.3 V	V_{CLAMP} : 19.9 V	V_{CLAMP} : 9.2 V	V_{CLAMP} : 10.3 V	V_{CLAMP} : 19.9 V
	824 500 241	824 500 261	824 500 301	824 520 241	824 520 261	824 520 301
	V_{DC} : 24 V	V_{DC} : 26 V	V_{DC} : 30 V	V_{DC} : 24 V	V_{DC} : 26 V	V_{DC} : 30 V
	I_{PEAK} : 10.3 A	I_{PEAK} : 9.5 A	I_{PEAK} : 8.3 A	I_{PEAK} : 15.5 A	I_{PEAK} : 14.3 A	I_{PEAK} : 12.4 A
	V_{CLAMP} : 38.9 V	V_{CLAMP} : 42.1 V	V_{CLAMP} : 48.4 V	V_{CLAMP} : 38.9 V	V_{CLAMP} : 42.1 V	V_{CLAMP} : 48.4 V
	824 500 331	824 500 361	824 500 481	824 520 331	824 520 361	824 520 481
	V_{DC} : 33 V	V_{DC} : 36 V	V_{DC} : 48 V	V_{DC} : 33 V	V_{DC} : 36 V	V_{DC} : 48 V
	I_{PEAK} : 7.5 A	I_{PEAK} : 6.9 A	I_{PEAK} : 5.2 A	I_{PEAK} : 11.3 A	I_{PEAK} : 10.4 A	I_{PEAK} : 7.8 A
	V_{CLAMP} : 53.3 V	V_{CLAMP} : 58.1 V	V_{CLAMP} : 77.4 V	V_{CLAMP} : 53.3 V	V_{CLAMP} : 58.1 V	V_{CLAMP} : 77.4 V
600 W / DO-214AA (SMBJ)	824 501 500	824 501 600	824 501 121	824 521 500	824 521 600	824 521 121
	V_{DC} : 5 V	V_{DC} : 6 V	V_{DC} : 12 V	V_{DC} : 5 V	V_{DC} : 6 V	V_{DC} : 12 V
	I_{PEAK} : 43.5 A	I_{PEAK} : 38.8 A	I_{PEAK} : 20.1 A	I_{PEAK} : 65.3 A	I_{PEAK} : 58.3 A	I_{PEAK} : 30.2 A
	V_{CLAMP} : 9.2 V	V_{CLAMP} : 10.3 V	V_{CLAMP} : 19.9 V	V_{CLAMP} : 9.2 V	V_{CLAMP} : 10.3 V	V_{CLAMP} : 19.9 V
	824 501 241	824 501 261	824 501 301	824 521 241	824 521 261	824 521 301
	V_{DC} : 24 V	V_{DC} : 26 V	V_{DC} : 30 V	V_{DC} : 24 V	V_{DC} : 26 V	V_{DC} : 30 V
	I_{PEAK} : 10.3 A	I_{PEAK} : 9.5 A	I_{PEAK} : 8.3 A	I_{PEAK} : 15.5 A	I_{PEAK} : 14.3 A	I_{PEAK} : 12.4 A
	V_{CLAMP} : 38.9 V	V_{CLAMP} : 42.1 V	V_{CLAMP} : 48.4 V	V_{CLAMP} : 38.9 V	V_{CLAMP} : 42.1 V	V_{CLAMP} : 48.4 V
	824 501 331	824 501 361	824 501 481	824 521 331	824 521 361	824 521 481
	V_{DC} : 33 V	V_{DC} : 36 V	V_{DC} : 48 V	V_{DC} : 33 V	V_{DC} : 36 V	V_{DC} : 48 V
	I_{PEAK} : 7.5 A	I_{PEAK} : 6.9 A	I_{PEAK} : 5.2 A	I_{PEAK} : 11.3 A	I_{PEAK} : 10.4 A	I_{PEAK} : 7.8 A
	V_{CLAMP} : 53.3 V	V_{CLAMP} : 58.1 V	V_{CLAMP} : 77.4 V	V_{CLAMP} : 53.3 V	V_{CLAMP} : 58.1 V	V_{CLAMP} : 77.4 V

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Please check datasheets on www.we-online.com for specifications.
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Characteristics

MSL Level 1 per J-STD-020
 Classification of the plastic case: UL 94 V-0
 Safety certification UL 497B, E478010
 Identical design:
 DO-214AC = SMAJ
 DO-214AA = SMBJ
 DO-214AB = SMCJ/SMDJ

Notes

@ 10/1000µs waveform
 I_{PEAK}
 P_{DISS}
 V_{CLAMP} @ I_{PEAK}

Unidirectional
 Bidirectional