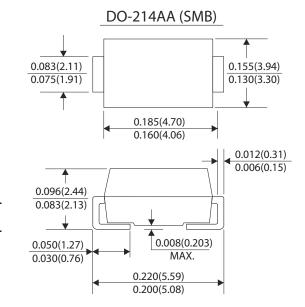


RS2A THRU RS2K

CURRENT 1.5 Amperes VOLTAGE 50 to 800 Volts

Features

- · For surface mounted applications in order optimize board space
- · Low profile package
- · Built-in strain relief, ideal for automated placement
- · Fast switching speed
- Plastic package has Unerwrites Laboratory Flammability Classification 94V-0
- · Low forward voltage drop
- · Glass passivated chip junction
- · High temperature soldering : 250 ℃/10 seconds at terminals



Dimensions in inches and (millimeters)

Mechanical Data

· Case: JEDEC SMB(DO-214AA) molded plastic body

 Terminals : Plated axial lead solderable per MIL-STD-750, method 2026

· Polarity: Color band denotes cathode end

· Weight: 0.003 ounce, 0.093 gram

Maximum Ratings And Electrical Characteristics

(Ratings at 25 $^{\circ}$ C ambient temperature unless otherwise specified, Single phase, half wave 60Hz, resistive or inductive load. For capacitive load, derate by 20%)

		Symbols	RS2A	RS2B	RS2D	RS2G	RS2J	RS2K	Units
Maximum recurrent peak reverse voltage		Vrrm	50	100	200	400	600	800	Volts
Maximum RMS voltage		VRMS	35	70	140	280	420	560	Volts
Maximum DC blocking voltage		VDC	50	100	200	400	600	800	Volts
Maximum average forward rectified current at TL=100 $^{\circ}$		I(AV)	1.5						Amps
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC method)		lfsm	50.0						Amps
Maximum instantaneous forward voltage at 1.5A		VF	1.30						Volts
Maximum reverse current at rated voltage	TA=25 ℃	- IR	5.0						μА
	Ta=125 ℃	IK	200						
Maximum reverse recovery time (Note 1)		Trr	150			250	500	nS	
Typical thermal resistance (Note 3)		R⊖jl R⊖ja	18.0 55.0						°C/W
Typical junction capacitance (Note 2)		CJ	50.0						pF
Operating junction and storage temperature range		TJ Tstg	-55 to +150						°C

Notes:

- (1) Test conditions: IF=0.5A, IR=1.0A, Irr=0.25A.
- (2) Measured at 1MHz and applied reverse voltage of 4.0 Volts.
- (3) Thermal resistance from junction to ambient and junction to lead mounted on PCB mounted on 0.27×0.27 " (7.0 × 7.0mm) copper pad areas



RATINGS AND CHARACTERISTIC CURVES RS2A THRU RS2K

FIG.1-FORWARD CURRENT DERATING CURVE

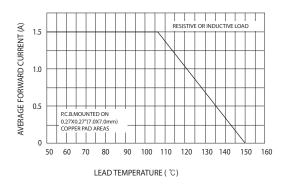


FIG.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

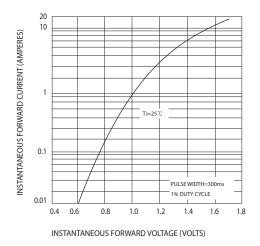


FIG.2-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

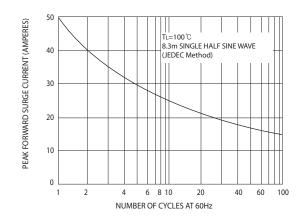


FIG.4-TYPICAL JUNCTION CAPACITANCE

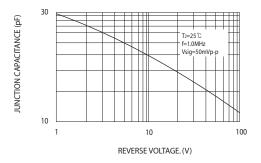


FIG.5-TYPICAL REVERSE CHARACTERISTICS

