

SURFACE MOUNT ULTRAFAST EFFICIENT PLASTIC RECTIFIER

FEATURES:

- Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- For surface mounted applications
- Low profile package
- Ideally suited for use in very high frequency switching power supplies, inverters and as a free wheeling diodes
- Ultrafast recovery times for high efficiency
- Low forward voltage
- Low leakage current
- Glass passivated chip junctions
- High temperature soldering guaranteed : 250° C/10 seconds at terminals

MECHANICAL DATA

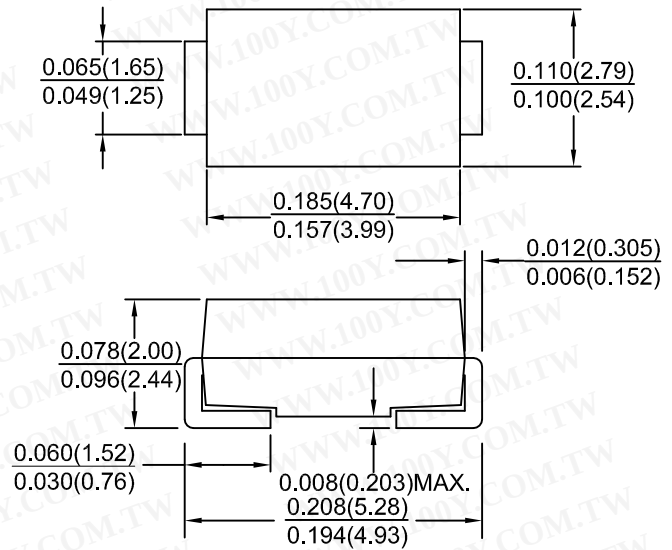
Case : JEDEC DO-214AC molded plastic body over passivated chip

Terminals : Solder plated, solderable per MIL-STD-750, Method 2026

Polarity : Color band denotes cathode end

Weight : 0.002 ounce, 0.064 grams

SMA/DO-214AC



Dimensions are in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25° C ambient temperature unless otherwise specified.

Characteristic	Symbol	E1A	E1B	E1C	E1D	Units
Maximum recurrent peak reverse voltage	VRRM	50	100	150	200	Volts
Maximum RMS voltage	VRMS	35	70	105	140	Volts
Maximum DC blocking voltage	VDC	50	100	150	200	Volts
Maximum average forward rectified current at T _L =110° C	I _O	1.0				Amp
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load(JEDEC Method)	I _{FSM}	30.0				Amps
Maximum instantaneous forward voltage at 1.0 A	V _F	0.920				Volts
Maximum DC reverse current Ta=25° C at rated DC blocking voltage Ta=100° C	I _R	5.0 100				μ A
Maximum reverse recovery time (NOTE 1)	t _{rr}	35				nS
Typical junction capacitance (NOTE 3)	C _J	7.0				pF
Maximum thermal resistance (NOTE 4)	R _{th} -JA R _{th} -JL	85.0 35.0				° C/W
Operating and storage temperature range	T _J , T _{stg}	-55 to +150				° C

NOTES:

- (1) Reverse recovery test condition : I_F=0.5A, I_R=1.0A, I_{rr}=0.25A
- (3) Measured at 1.0 MHz and applied reverse voltage of 4.0 Volts
- (4) P.C.B. mounted on 0.2x0.2"(5.0x5.0mm) copper pad area

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RATINGS AND CHARACTERISTIC CURVES E1A THRU E1D

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