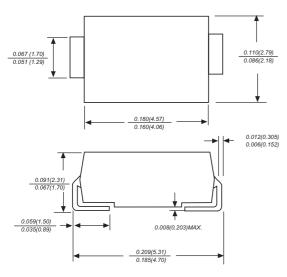
### II. Schottky Rectifier

# 3.0A Surface Mount Schottky Rectifier MBRA340

#### Reverse Voltage - 40 Volts

#### Forward Current - 3.0 Amperes

#### **DO-214AC**



Dimensions in inches and (millimeters)

#### **FEATURES**

- ◆ The plastic package carries Underwriters Laboratory Flammability Classification 94V-0
- ◆ For surface mounted applications
- ◆ Metal silicon junction, majority carrier conduction
- ◆ Low power loss,high efficiency
- ◆ Built-in strain relief,ideal for automated placement
- High forward surge current capability
- High temperature soldering guaranteed: 250°C/10 seconds at terminals

#### **MECHANICAL DATA**

Case: JEDEC DO-214AC molded plastic body Terminals: leads solderable per MIL-STD-750,

Method 2026

Polarity: Color band denotes cathode end

Mounting Position: Any Weight: 0.058 grams

#### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified. Single phase half-wave 60Hz,resistive or inductive load,for capacitive load current derate by 20%.

	SYMBOLS	MBRA340	UNITS
Maximum repetitive peak reverse voltage	Vrrm	40	VOLTS
Maximum RMS voltage	VRMS	28	VOLTS
Maximum DC blocking voltage	VDC	40	VOLTS
Maximum average forward rectified current at TL(see fig.1)	l(AV)	3.0	Amps
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	lfsm	100.0	Amps
Maximum instantaneous forward voltage at 3.0A	VF	0.55	Volts
Maximum DC reverse current Ta=25°C at rated DC blocking voltage Ta=100°C	l <sub>R</sub>	0.5 20	mA
Typical junction capacitance (NOTE 1)	Сл	500	pF
Typical thermal resistance (NOTE 2)	RqJA	55.0	°C/W
Operating junction temperature range	TJ,	-65 to +125	°C
Storage temperature range	Тѕтс	-65 to +150	°C

**Note:**1.Measured at 1MHz and applied reverse voltage of 4.0V D.C. 2.P.C.B. mounted with 0.2x0.2"(5.0x5.0mm) copper pad areas

## **Ratings and Characteristic Curves of MBRA340**

