

# BYS11-90

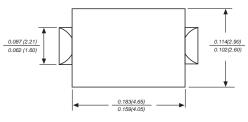
### SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

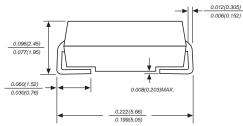
Reverse Voltage - 100 Volts

Forward Current - 2.0 Amperes

#### SMA-L

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





#### **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: 0.003 ounce, 0.093 grams

Dimensions in inches and (millimeters)

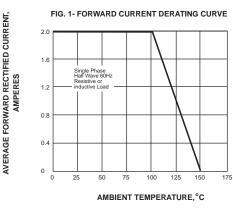
#### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

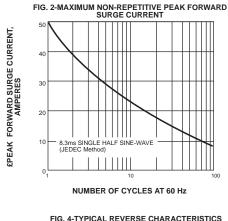
Ratings at 25°C ambient temperature unless otherwise specified. Single phase half-wave 60Hz, resistive or inductive load, for capacitive load current derate by 20%.

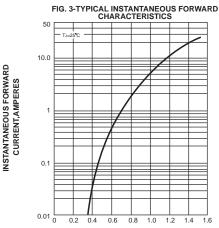
	SYMBOLS	BYS11-90	UNITS
Maximum repetitive peak reverse voltage	Vrrm	100	VOLTS
Maximum RMS voltage	VRMS	70	VOLTS
Maximum DC blocking voltage	VDC	100	VOLTS
Maximum average forward rectified current at TL(see fig.1)	l(AV)	2.0	Amps
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	Ігѕм	50.0	Amps
Maximum instantaneous forward voltage at 2.0A	VF	0.85	Volts
Maximum DC reverse current Ta=25℃ at rated DC blocking voltage Ta=100℃	l <sub>R</sub>	0.1 20	mA
Typical junction capacitance (NOTE 1)	Cı	220	pF
Typical thermal resistance (NOTE 2)	Rqja	75.0	°C/W
Operating junction temperature range	TJ,	-65 to +150	°C
Storage temperature range	Тѕтс	-65 to +150	°C

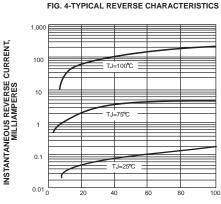
Note: 1. Measured at 1MHz and applied reverse voltage of 4.0V D.C. 2.P.C.B. mounted with 0.2x0.2" (5.0x5.0mm) copper pad areas

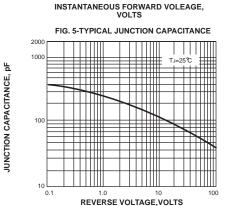
## **RATINGS AND CHARACTERISTIC CURVES BYS11-90**

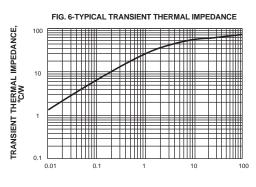












PERCENT OF PEAK REVERSE VOLTAGE,%

t,PULSE DURATION,sec.