

# CHENMKO ENTERPRISE CO.,LTD

### **SURFACE MOUNT**

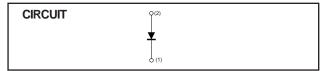
SCHOTTKY BARRIER RECTIFIER VOLTAGE RANGE 60 Volts CURRENT 1.0 Ampere SMD16APT

#### **FEATURES**

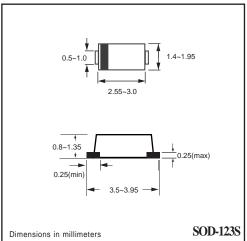
- \* For surface mounted applications
- \* Metal silicon junction, majority carrier conduction
- Low power loss, high efficiency High current capability, low forward voltage drop
- High surge capability
  For use in low voltage high frequency inverters, free wheeling, and polarity protection applications
- \* Lead free devices

#### **MARKING**

\* 16







#### MAXIMUM RATINGES ( At TA = 25°C unless otherwise noted )

RATINGS	SYMBOL	SMD16APT	UNITS
Maximum Recurrent Peak Reverse Voltage	VRRM	60	Volts
Maximum RMS Voltage	VRMS	42	Volts
Maximum DC Blocking Voltage	VDC	60	Volts
Maximum Average Forward Rectified Current	lo	1.0	Amps
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	IFSM	40	Amps
Typical Junction Capacitance (Note 2)	Cı	110	pF
Typical Thermal Resistance (Note 1)	R θ JL	60	°C/W
Operating Temperature Range	TJ	-65 to +150	°C
Storage Temperature Range	Тѕтс	-65 to +150	°C

#### **ELECTRICAL CHARACTERISTICS** ( At TA = 25°C unless otherwise noted )

CHARACTERISTICS		SYMBOL	SMD16APT	UNITS
Maximum Instantaneous Forward Voltage at 1.0 A DC		VF	0.65	Volts
Maximum Average Reverse Current	@ Ta = 25°C	lr Ir	50	uAmps
at Rated DC Blocking Voltage	@ Ta = 100°C		10	mAmps

NOTES: 1. Thermal Resistance ( Junction to Lead ): PC Board Mounted on 0.2 X 0.2" ( 5 X 5mm ) copper pad area.

2. Measured at 1.0 MHz and applied reverse voltage of 4.0 volts.

2007-06

## RATING CHARACTERISTIC CURVES (SMD16APT)

