

# CHENMKO ENTERPRISE CO.,LTD

SR120PT **THRU** SR160PT

SCHOTTKY BARRIER RECTIFIER

VOLTAGE RANGE 20 - 60 Volts CURRENT 1.0 Ampere

#### **FEATURES**

- Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- Low switching noise
- Low forward voltage drop High current capability
- High switching capability
- High reliability
- High surge capability
- High temperature soldering guaranteed : 260°C/10 seconds , 0.375" (9.5mm) lead length, 5lbs. (2.3kg) tension

## **MECHANICAL DATA**

Case: JEDEC DO-41 molded plastic body

Terminals: Plated axial leads, solderable per MIL-STD-750,

Method 2026

Polarity: Color band denotes cathode end

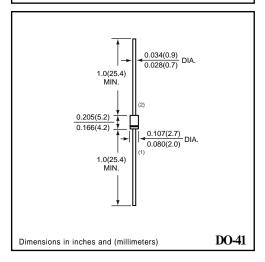
Mounting Position: Any Weight: 0.33 gram

### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified. Single phase, half wave, 60 Hz, resistive or inductive load.

For capacitive load, derate current by 20%.





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

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RATINGS	SYMBOL	SR120PT	SR130PT	SR140PT	SR150PT	SR160PT	UNITS
Maximum Recurrent Peak Reverse Voltage	VRRM	20	30	40	50	60	Volts
Maximum RMS Voltage	VRMS	14	21	28	35	42	Volts
Maximum DC Blocking Voltage	VDC	20	30	40	50	60	Volts
Maximum Average Forward Rectified Current 0.375" (9.5mm) lead length (SEE FIG.1)	lo	1.0					
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	Ігѕм	40					
Typical Junction Capacitance (Note 1)	Сл	110					
Typical Thermal Resistance (Note 2)	R θ JA	50					
Operating Temperature Range	TJ	-65 to +125 -65 to +150			+150	°C	
Storage Temperature Range	Тѕтс	-65 to +150					°C

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

CHARACTERISTICS		SYMBOL	SR120PT	SR130PT	SR140PT	SR150PT	SR160PT	UNITS				
Maximum Instantaneous Forward Voltage at 1.0 A DC		VF	0.55			0.70		Volts				
Maximum Average Reverse Current	@ Ta = 25°C	l R	1.0					mAmps				
at Rated DC Blocking Voltage	@ Ta = 100°C	I IK	10					mAmps				

NOTES: 1. Measured at 1.0 MHz and applied reverse voltage of 4.0 volts

2. Thermal Resistance ( Junction to Ambient ) : Vertical PC Board Mounting, 0.5" (12.7mm) Lead Length.

2004-6

