

CHENMKO ENTERPRISE CO.,LTD

U16P20PT THRU U16P40PT

Lead free devices

SUPER FAST RECOVERY RECTIFIER

VOLTAGE RANGE 200 - 400 Volts CURRENT 16 Amperes

FEATURES

- Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- * Dual rectifier construction, positive centertap
- * Glass passivated chip junctions
- * Low power loss
- * Low forward voltage, high current capability
- * High surge current capability
- * Superfast recovery times for high efficiency
- * High temperature soldering guaranteed : 260°C/10 seconds at terminals

MECHANICAL DATA

Case: JEDEC DPAK molded plastic

Terminals: Lead solderable per MIL-STD-750,

Method 2026

Polarity: As marked

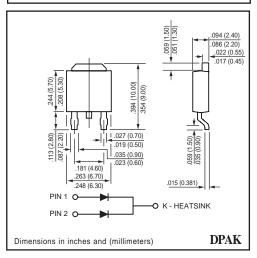
Weight: 1.7 grams (Approximately)

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%.

DPAK



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

RATINGS	SYMBOL	U16P20PT	U16P30PT	U16P40PT	UNITS
Maximum Recurrent Peak Reverse Voltage	VRRM	200	300	400	Volts
Maximum RMS Voltage	VRMS	140	210	280	Volts
Maximum DC Blocking Voltage	VDC	200	300	400	Volts
Maximum Average Forward Rectified Current	lo	16.0			Amps
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	IFSM	200			Amps
Typical Junction capacitance per leg (NOTE 1)	CJ	85			
Typical thermal resistance (NOTE 2)	R θJC	2.2			°C/W
Operating and Storage Temperature Range	TJ, TSTG	-55 to +150			

ELECTRICAL CHARACTERISTICS (At $TA = 25^{\circ}C$ unless otherwise noted)

CHARACTERISTICS		SYMBOL	U16P20PT	U16P30PT	U16P40PT	UNITS
Maximum Instantaneous Forward Voltage at 8.0 A DC		VF	0.975	1.30		Volts
Maximum DC reverse current	TC = 25°C	l _R	5.0			uAmps
at rated DC blocking voltage per leg	Tc = 100°C	IR IR	150			
Maximum reverse recovery time (NOTE 3) per leg		trr	35			nS

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

- 2. Thermal resistance from junction to case per leg mounted on heatsink
- 3. Reverse recovery test conditions: IF = 0.5 A, Ir = -1.0 A, Irr = -0.25 A.

2002-5

RATING CHARACTERISTIC CURVES (U16P20PT THRU U16P40PT)

