

CHENMKO ENTERPRISE CO.,LTD

SURFACE MOUNT GLASS PASSIVATED

UBM11PT THRU UBM18PT

SUPER FAST SILICON RECTIFIER

VOLTAGE RANGE 50 - 1000 Volts CURRENT 1.0 Ampere

FEATURES

- * For surface mounted applications
- * Low profile package
- * Built-in strain relief
- * Superfast recovery times for high efficiency
- * Metallurgically bonded construction
- Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- * Glass passivated junction
- * High temperature soldering guaranteed : 260°C/10 seconds at terminals

MECHANICAL DATA

Case: JEDEC SMB molded plastic

Terminals: Solder plated, solderable per MIL-STD-750,

Method 2026

Polarity: Indicated by cathode band **Weight:** 0.003 ounces, 0.093 gram

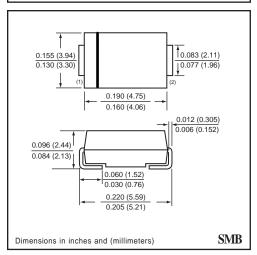
MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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%.

SMB



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

RATINGS	SYMBOL	UBM11PT	UBM12PT	UBM13PT	UBM14PT	UBM15PT	UBM16PT	UBM17PT	UBM18PT	UNITS
Maximum Recurrent Peak Reverse Voltage	VRRM	50	100	200	300	400	600	800	1000	Volts
Maximum RMS Voltage	VRMS	35	70	140	210	280	420	560	700	Volts
Maximum DC Blocking Voltage	VDC	50	100	200	300	400	600	800	1000	Volts
Maximum Average Forward Rectified Current TL = 120°C	lo	1.0								Amps
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	IFSM	30							Amps	
Typical Junction Capacitance (Note 1)	Сл	15			10			pF		
Operating and Storage Temperature Range	TJ, TSTG	-65 to +150							°C	

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

ELLOTRICAL CHARACTERIOTICS (78 1X = 20 0	anicos otnerwise	notou)									
CHARACTERISTICS		SYMBOL	UBM11PT	UBM12PT	UBM13PT	UBM14PT	UBM15PT	UBM16PT	UBM17PT	UBM18PT	UNITS
Maximum Instantaneous Forward Voltage at 1.0 A DC V				0.	95		1.27	1.27 1.75			Volts
Maximum DC Reverse Current	@ TA = 25°C	1-	5.0								uAmps
at Rated DC Blocking Voltage	@ TA = 100°C	lR IR	50								uAmps
Maximum Reverse Recovery Time (Note 2)		trr	35					45		nSec	

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

2. Test Conditions : IF = 0.5 A, IR = -1.0 A, IRR = -0.25 A

2004-10

RATING CHARACTERISTIC CURVES (UBM11PT THRU UBM18PT)

