

SURFACE MOUNT HIGH EFFICIENCY RECTIFIER

FEATURES

- Plastic package has underwrites laboratory flammability Classification 94V-0
- Glass passivated chip junction
- Built-in strain relief,
- Fast switching speed for high efficiency
- High temperature soldering guaranteed:250 /10 seconds

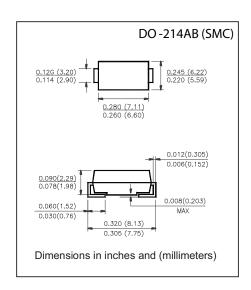
MECHANICAL DATA

Case: JEDED DO-214AB transfer molded plastic

■ Terminals: Solder plated, solderable per MIL-STD-750, method 2026

Polarity: Color band denotes cathode end

■ Weight: 0.007 ounce, 0.25 gram



Website: www.micindia.com

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 derate current by 20%..

PARAMETER		SYMBOLS	US3A	US3B	US3D	US3G	US3J	US3K	US3M	UNIT
Maximum Repetitive Peak Reverse Voltage		V_{RRM}	50	100	200	400	600	800	1000	Volts
Maximum RMS Voltage		V_{RMS}	35	70	140	280	420	560	700	Volts
Maximum DC Blocking Voltage		V_{DC}	50	100	200	400	600	800	1000	Volts
Maximum Average Forward Rectified Current At TL=105°C (NOTE 1)		I _(AV)	3.0							Amps
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)		I_{FSM}	100							Amps
Maximum Instantaneous Forward Voltage at 3.0A		V_{F}	1.0 1.3				1.7		Volts	
Maximum DC Reverse Current at rated DC Blocking Voltage at	$T_A = 25 ^{\circ}\text{C}$	ī	10							μA
	$T_A = 125 ^{\circ}\text{C}$	I_R	200							
Maximum Reverse Recovery Time Test conditions IF =0.5A, IR =1.0A, IRR =0.25A		t_{rr}	50 75					nS		
Typical Junction Capacitance (Measured at 1.0MHz and applied reverse voltage of 4.0V)		C_{J}	50 30						pF	
Typical Thermal Resistance (Note 1)		$R_{\theta JA}$	55							°C/W
		$R_{ heta JL}$	17							
Operating Junction Temperature		T_{J}	(-55 to +150)							°C
Storage Temperature Range		T_{STG}	(-55 to +150)							℃

Notes:

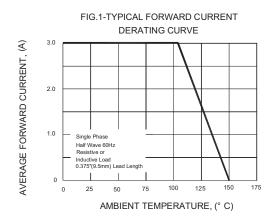
1. Thermal resistance from Junction to ambient and from junction to lead mounted on P.C.B. with $0.3\times0.3''(8.0\times8.0\text{mm})$ copper pad areas.

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RATING AND CHARACTERISTIC CURVES US3A - US3M



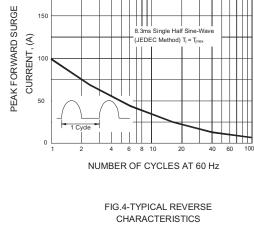
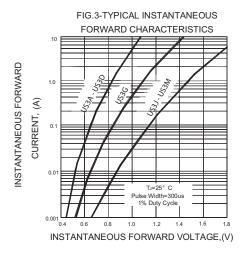
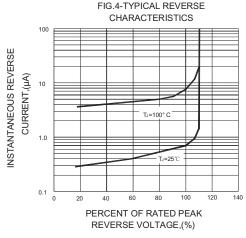
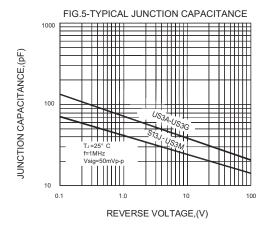


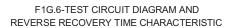
FIG.2-MAXIMUM NON-REPETITIVE PEAK

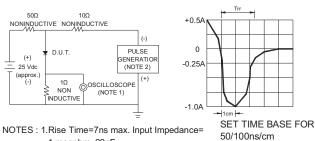
FORWARD SURGE CURRENT











1 megohm. 22pF

2.Rise time=10ns max. Source Impedance= 50 ohms

Disclaimer

All product, product specifications and data are subject to change without notice to improve reliability, function or design or otherwise.

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