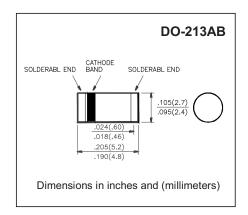


Voltage Range - 50 to 600 V Forward Current - 1 Ampere

SURFACE MOUNT SUPER FAST RECOVERY RECTIFIERS

FEATURES

- For surface mounted applications
- Glass passivated chip junction
- Low leakage current
- Fast switching
- Plastic package has underwrites laboratory flammability Classification 94V-0
- High temperature soldering guaranteed
 250°C/10 seconds at terminals



MECHANICAL DATA

Case: molded plastic

Polarity: band indicate cathode

Mounting position: AnyWeight: 0.12 grams

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%.

		SYMBOLS	ESM 1A	ESM 1B	ESM 1C	ESM 1D	ESM 1E	ESM 1G	ESM 1J	UNITS
Maximum Repetitive Peak Reverse Voltage		V_{RRM}	50	100	150	200	300	400	600	Volts
Maximum RMS Voltage		V_{RMS}	35	70	105	140	210	280	420	Volts
Maximum DC Blocking Voltage		V_{DC}	50	100	150	200	300	400	600	Volts
Maximum Average Forward Rectified Current at T _T =100°C		$I_{(AV)}$	1.0						Amps	
Peak Forward Surge Current 8.3ms single half sine wave superimposed on rated load (JEDEC Method)		I_{FSM}	30						Amps	
Maximum Instantaneous Forward Voltage at 1.0A		V_{F}		0.95			1.3	25	1.70	Volts
Maximum DC Reverse Current at rated DC Blocking Voltage at	T _A = 25 °C	$ I_R$	5.0							μA
	T _A = 125 °C					100	0			
Typical Reverse Recovery Time (NOTE 1)		Trr	35							ns
Typical Junction Capacitance (Note 2)		C_{J}	15							PF
Typical Thermal Resistance (Note 3)		$R_{ heta JT}$	40							°C/W
Operating and Storage Temperature Range		T_J, T_{STG}	-55 to +150							$^{\circ}\mathbb{C}$

Notes:

- 1. Reverse recovery test conditions: I_F=0.5A, I_R=1.0A, Irr=0.25A
- 2. Measured at 1.0MHz and applied reverse voltage of 4.0 Volts.
- 3. Thermal resistance Junction to terminal 6.0mm² copper pads to each terminal.

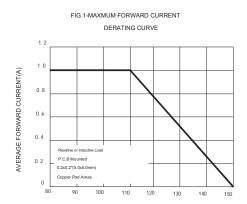
Email: sales@micindia.com Website: www.micindia.com

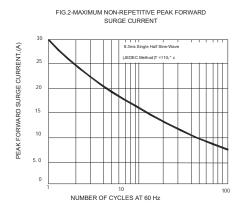


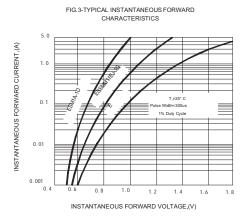
Voltage Range - 50 to 600 V Forward Current - 1 Ampere

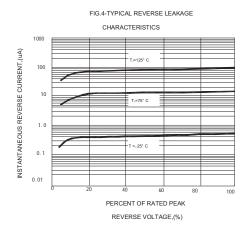
SURFACE MOUNT SUPER FAST RECOVERY RECTIFIERS

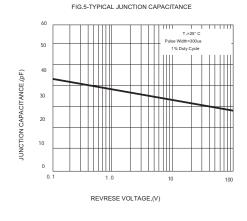
RATINGS AND CHARACTERISTIC CURVES ESM1A - ESM1J

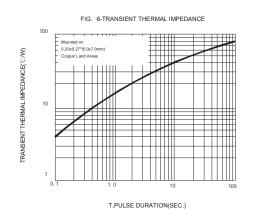












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