

EM520E

1.0AMP. SURFACE MOUNT RECTIFIERS

FEATURE

- . High current capability
- . Low forward voltage drop
- . Low power loss, high efficiency
- . High surge capability
- High temperature soldering guaranteed: $260^{\circ}C/10$ seconds at terminals.
- 260 C/10 seconds at terminals.
- For surface mounted application.
- . Easy pick and place.

MECHANICAL DATA

- . Case: Molded plastic
- . Epoxy: UL94V-0 rate flame retardant
- . Lead: MIL-STD- 202E, Method 208 guaranteed
- . Polarity:Color band denotes cathode end
- . Packaging:12mm tape per EIA STD RS-481
- . Mounting position: Any

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25 $^\circ\!\mathrm{C}$ ambient temperature unless otherwise specified.

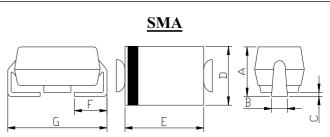
Single phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%

Type Number	SYM BOL	EM520E	units
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	2000	V
Maximum RMS Voltage	V _{RMS}	1400	V
Maximum DC blocking Voltage	V _{DC}	2000	V
Maximum Average Forward Rectified Current at T _A =55°C	I _{F(AV)}	1.0	A
Peak Forward Surge Current 8.3ms single half sine- wave superimposed on rated load (JEDEC method)	I _{FSM}	30.0	А
Maximum Forward Voltage at 1.0A DC	V _F	1.1	V
Maximum DC Reverse Current $@T_J = 25^{\circ}C$ at rated DC blocking voltage $@T_J = 100^{\circ}C$	I _R	5.0 100.0	μΑ
Typical Junction Capacitance (Note1)	Сл	15	pF
Typical Thermal Resistance (Note 2)	R _(JA)	75	°C /W
Storage Temperature	T _{STG}	-55 to +150	°C
Operation Junction Temperature	TJ	-55 to +150	°C

Note:

1. Measured at 1.0 MHz and applied reverse voltage of 4.0Vdc

2. Measured on P.C.Board with 0.2×0.2"(5.0×5.0mm)Copper Pad Areas.



NO	Measurement(mm)
А	2.0~2.65
В	1.2~1.8
С	0.2MAX
D	2.4~2.9
Е	3.8~4.6
F	0.8~1.8
G	4.8~5.8



RATING AND CHARACTERISTIC CURVES (EM520E)

