

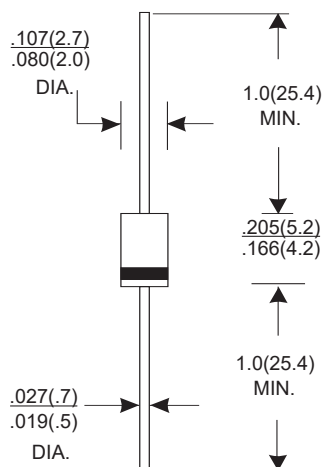
DO-41 PLASTIC SILICON RECTIFIERS

FEATURES

- The plastic package carries Underwrites Laboratory Flammability Classification 94V-0
- Construction utilizes void-free molded plastic technique
- High reliability
- High temperature soldering guaranteed:260 °C/10 seconds at terminals
- Component in accordance to RoHs 2015/863 and WEEE 2012/19/EU

MECHANICAL DATA

- Case style: DO-41 molded plastic
- Mounting position: Any



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND CHARACTERISTICS

@ 25°C Ambient Temperature (unless otherwise noted)

CHARACTERISTICS	SYMBOL	EM513	EM516	EM518	UNIT
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	1600	1800	2000	V
Maximum RMS Voltage	V_{RMS}	1120	1260	1400	V
Maximum DC Blocking Voltage	V_{DC}	1600	1800	2000	V
Maximum Average Forward Rectified Current 0.375"(9.5mm) Lead Lengths at	$I_{(AV)}$	1.0			A
Peak Forward Surge Current 8.3ms Single Half Sine-Wave Super Imposed on Rated Load	I_{FSM}	30			A
Maximum Instantaneous Forward Voltage at Rated Forward Current	V_F	1.2			V
Maximum DC Reverse Current at Rate DC Blocking Voltage	I_R	5.0 100.0			uA
Typical junction Capacitance (Note1)	C_J	10			pF
Typical Thermal Resistance (Note 2)	$R_{\theta JA}$	60			°C/W
Operating Temperature Range	T_J	-55 to +150			°C
Storage Temperature Range	T_{STG}	-55 to +150			°C

RATINGS AND CHARACTERISTIC CURVES

FIG.1: I_o -T_c Curve

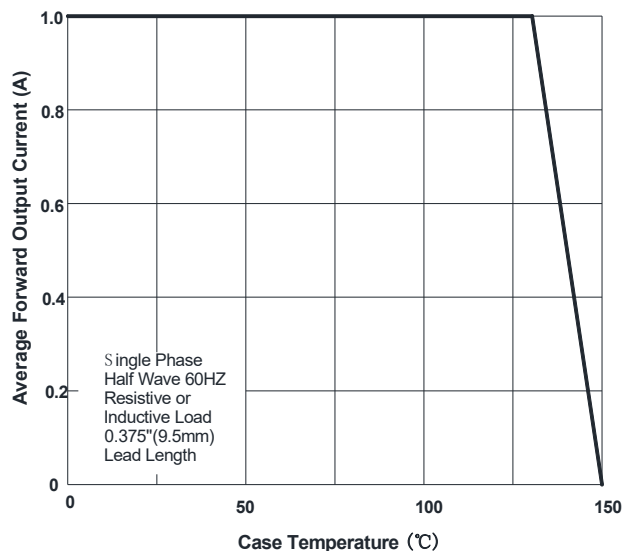


FIG.2: Forward Surge Current Capability

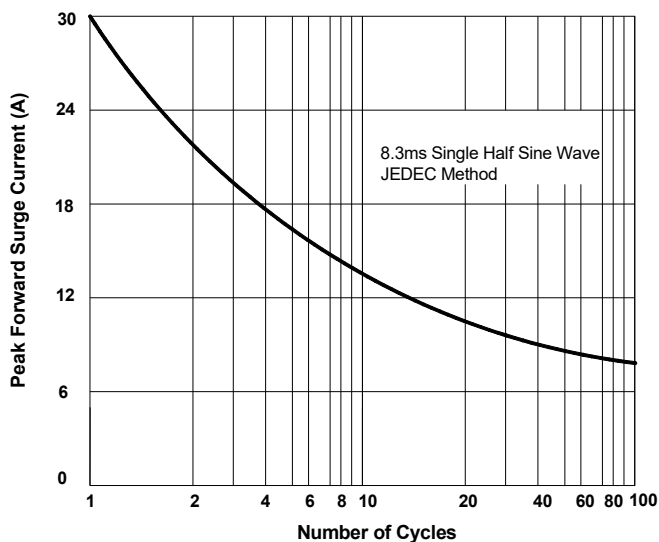


FIG.3: Forward Voltage

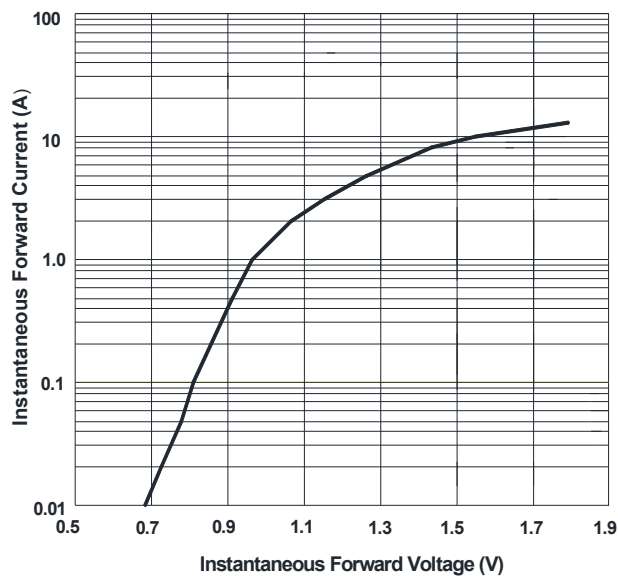


FIG.4: Typical Reverse Characteristics

