
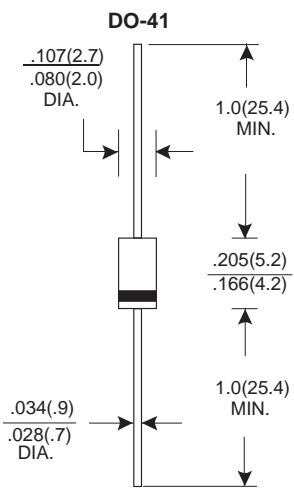


BY127M, BY133, EM513



1.0 AMP SILICON RECTIFIERS

 <h3>FEATURES</h3> <ul style="list-style-type: none"> * Low forward voltage drop * High current capability * High reliability * High surge current capability <h3>MECHANICAL DATA</h3> <ul style="list-style-type: none"> * Case: Molded plastic * Epoxy: UL 94V-0 rate flame retardant * Lead: Axial leads, solderable per MIL-STD-202, method 208 guranteed * Polarity: Color band denotes cathode end * Mounting position: Any * Weight: 0.34 grams 	<h3>VOLTAGE RANGE</h3> <p>1250 to 1600 Volts</p> <h3>CURRENT</h3> <p>1.0 Ampere</p> <div style="text-align: center;">  <p>DO-41</p> <p>Dimensions in inches and (millimeters)</p> </div>
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MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating 25 C ambient temperature unieess otherwies specified.
 Single phase half wave, 60Hz, resistive or inductive load.
 For capacitive load, derate current by 20%.

TYPE NUMBER	BY127M	BY133	EM513	UNITS
Maximum Recurrent Peak Reverse Voltage	1250	1300	1600	V
Maximum RMS Voltage	875	910	1120	V
Maximum DC Blocking Voltage	1250	1300	1600	V
Maximum Average Forward Rectified Current				
.375" (9.5mm) Lead Length at Ta=75 C	1.0			A
Peak Forward Surge Current, 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)				30
Maximum Instantaneous Forward Voltage at 1.0A				1.1
Maximum DC Reverse Current Ta=25 C				5.0
at Rated DC Blocking Voltage Ta=100 C				50
Typical Junction Capacitance (Note 1)				15
Typical Thermal Resistance RθJA (Note 2)				50
Operating and Storage Temperature Range Tj, Tstg	-65 — +150			C

NOTES:

1. Measured at 1MHz and applied reverse voltage of 4.0V D.C.
2. Thermal Resistance from Junction to Ambient .375" (9.5mm) lead length.

RATING AND CHARACTERISTIC CURVES (BY127M, BY133, EM513)

FIG.1-TYPICAL FORWARD CHARACTERISTICS

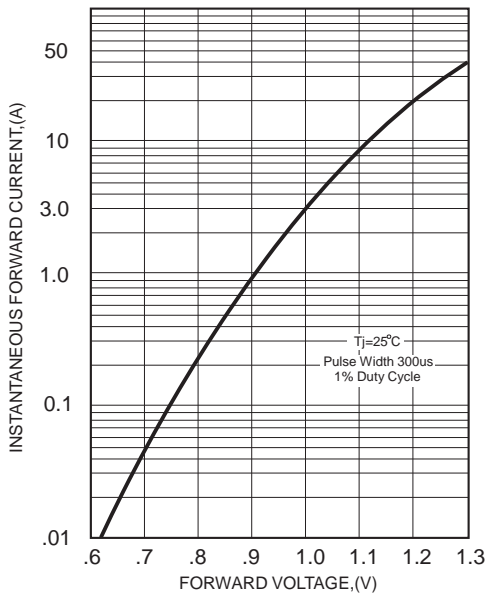


FIG.2-TYPICAL FORWARD CURRENT DERATING CURVE

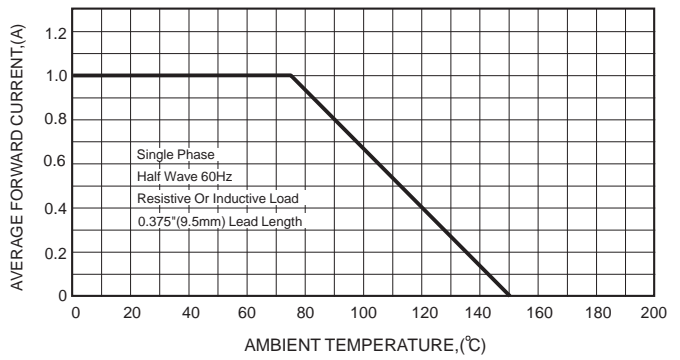


FIG.4-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

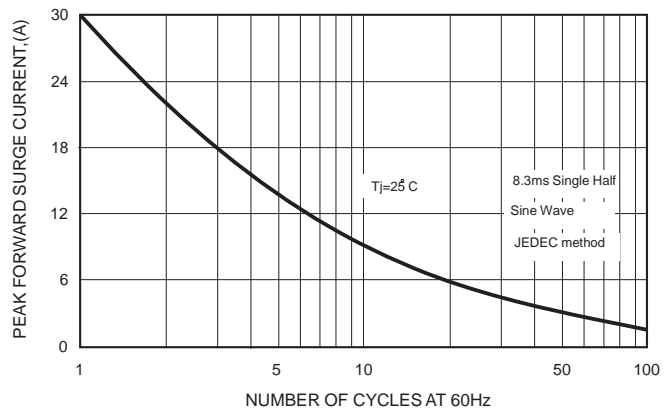


FIG.3 - TYPICAL REVERSE CHARACTERISTICS

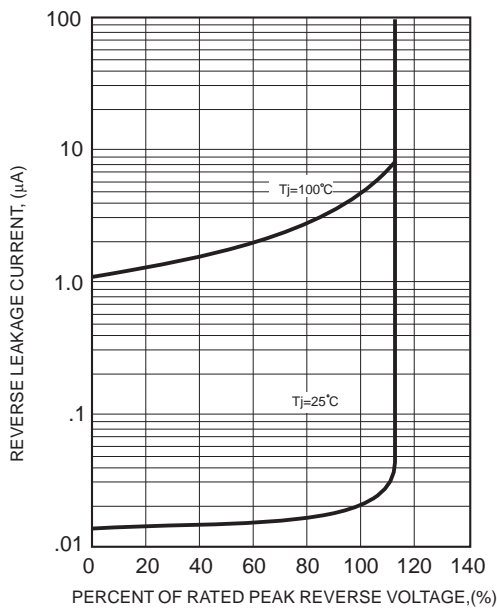


FIG.5-TYPICAL JUNCTION CAPACITANCE

