

<u>捷多邦,专业PCB打样工厂,24小时加急</u> BY127, BY133, EM5当³, EM516

DO-41

С

D

0.028

1.000

GENERAL PURPOSE PLASTIC RECTIFIER

Reverse Voltage - 1250 to 1800 Volts Forward Current - 1.0 Ampere

Features

- The plastic package carries Underwriters Laboratory Flammability Classification 94V-0
- Construction utilizes void-free molded plastic technique
- Low reverse leakage
- Low forward voltage drop
- High current capability
- High reliability
- High surge current capability



- Case: Molded plastic, DO-41
- Lead: Axial leads, solderable per MIL-STD-202, method 208 guaranteed
- Polarity: Color band denotes cathode end
- Mounting Position: Any
- Weight: 0.012 ounce, 0.33 gram

DIMENSIONS										
DIM	inches		m							
	Min.	Max.	Min.	Max.	Note					
А	0.165	0.205	4.2	5.2						
В	0.079	0.106	2.0	2.7	ф					

0.71

25.40

0.86

ф

0.034

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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	BY127	BY133	EM513	EM516	Units
Maximum repetitive peak reverse voltage	V _{RRM}	1250	1300	1600	1800	Volts
Maximum RMS voltage	V _{RMS}	875	910	1120	1270	Volts
Maximum DC blocking voltage	V _{DC}	1250	1300	1600	1800	Volts
Maximum average forward rectified current 0.375" (9.5mm) lead length at $T_{\rm A}$ =75 $^{\circ}{\rm C}$	I _(AV)	103	Amp			
Peak forward surge current 8.3mS single half sine-wave superimposed on rated load (MIL-STD-750D 4066 method)	I _{FSM}	COM	Amps			
Maximum forward voltage at 1.0A DC and 25 $^\circ\!\mathrm{C}$	V _F		Volts			
Maximum full load reverse current at rated DC blocking voltage T =25 °C T_A=100 °C	I _R		μA			
Typical junction capacitance (Note 1)	C		ρF			
Typical thermal resistance (Note 2)			°C/W			
Operating and storage temperature range	Τ _J , Τ _{stg}		°C			

Notes: PDF

Measured at 1.0MHz and applied reverse voltage of 4.0 VDC

2) Thermal resistance junction to ambient and from junction to lead at 0.375" (9.5mm) lead length, P.C.B. mounted

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RATINGS AND CHARACTERISTIC CURVES



Fig. 1 - TYPICAL FORWARD CURRENT DERATING CURVE



Fig. 2 - TYPICAL FORWARD CHARACTERISTICS







Fig. 3 – MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT



Fig. 5 - TYPICAL REVERSE CHARACTERISTICS