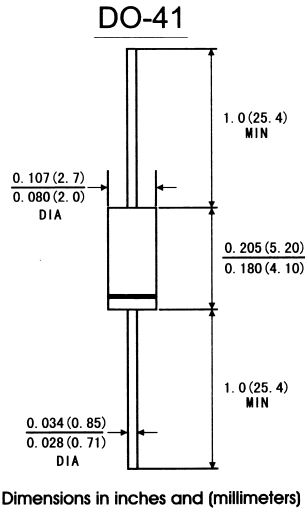


FEATURES

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

MECHANICAL DATA

- . **Case:** JEDEC DO-41 molded plastic body
- . **Terminals:** lead solderable per MIL-STD-750,method 2026
- . **Polarity:** Color band denotes cathode end
- . **Mounting Position:** Any
- . **Weight:** 0.012 ounce, 0.33 gram



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 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	930	1120	1270	Volts
Maximum DC blocking voltage	V _{DC}	1250	1300	1600	1800	Volts
Macimum average forward rectified current 0.375"(9.5mm)lead length at T _A =75°C	I _(AV)	1.0				Amp
Peak forward surge current 8.3ms sing-wave superimposed on rated load (JEDEC method)T _A =75°C	I _{FSM}	30.0				Amps
Maximum instantaneous forward voltage at 1.0 A	V _F	1.1				Volts
Maximum reverse current at rated DC blocking voltage	T _A =25°C	5.0				μ A
	T _A =100°C	200.0				
Typeical thermal resistance(Note 2)	R _{θ JA}	50.0				°C/W
	R _{θ JL}	25.0				
Typical junction Capacitance(Note 1)	C _J	15.0				pF
Operating and storage temperature range	T _J	-50 to +150				°C
	T _{STG}					

Notes: 1. Measured at 1MHz and applied reverse voltage of 4.0V DC

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

P.C.B. Mounted



CHENYI ELECTRONICS

BY127,BY133,EM513,EM516

GENERAL PURPOSE PLASTIC RECTIFIER

Reverse Voltage - 1250 to 1800 Volts

Forward Current - 1.0Ampere

RATINGS AND CHARACTERISTIC CURVES BY127,BY133,EM513,EM516

FIG.1-FORWARD CURRENT DERATING CURVE

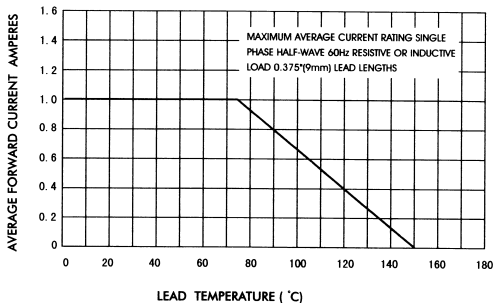


FIG.2-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

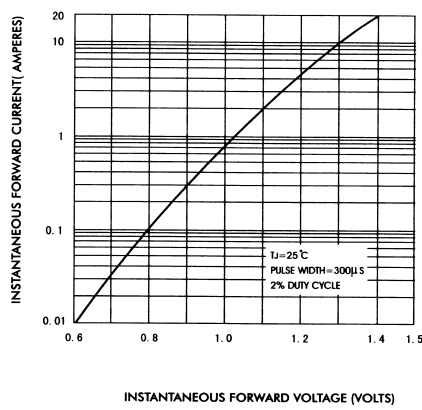


FIG.3-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

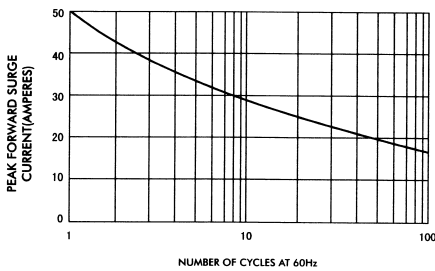


FIG.4-TYPICAL REVERSE CHARACTERISTICS

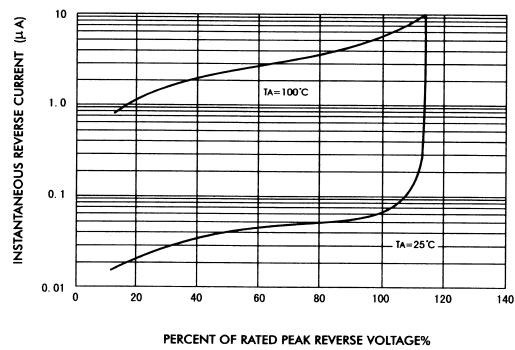


FIG.5-TYPICAL JUNCTION CAPACITANCE

