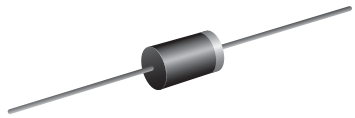
ERA32-01 - ERA32-02

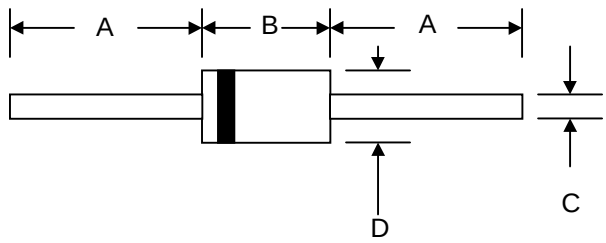
HIGH EFFICIENCY RECTIFIER DIODES

VOLTAGE RANGE: 100 - 200V
CURRENT: 1.0 A



Features

- Low leakage
- Low forward voltage drop
- High current capability
- Easily cleaned with alcohol,Isopropanol and similar solvents
- The plastic material carries U/L recognition 94V-0



DO-41		
Dim	**Min**	**Max**
A	25.4	—
B	4.06	5.21
C	0.71	0.864
D	2.00	2.72
All Dimensions in mm		

Mechanical Data

- Case:DO-41,molded plastic
- Terminals: Axial lead ,solderable per MIL- STD-202,Method 208
- Polarity: Color band denotes cathode
- Mounting position: Any

RoHS COMPLIANT

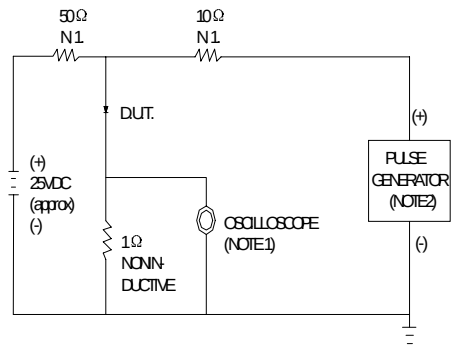
Maximum Ratings and Electrical Characteristics T_A = 25°C unless otherwise specified

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

Characteristic	Symbol	ERA32 - 01	ERA32 - 02	Unit
Maximum recurrent peak reverse voltage	V_{RRM}	100	200	V
Maximum RMS voltage	V_{RMS}	70	140	V
Maximum DC blocking voltage	V_{DC}	100	200	V
Maximum average forw ard rectified current 9.5mm lead length, @T_A=75℃	$I_{F(AV)}$	1.0		A
Peak forw ard surge current 8.3ms single half-sine-w ave superimposed on rated load @T_J=125℃	I_{FSM}	40.0		A
Maximum instantaneous forw ard voltage @ 1.0A	V_F	0.92		V
Maximum reverse current @T_A=25℃ at rated DC blocking voltage @T_A=100℃	I_R	5.0 50.0		μA
Maximum reverse recovery time (Note1)	t_{rr}	50		ns
Typical junction capacitance (Note2)	C_J	20		pF
Typical thermal resistance (Note3)	$R_{\theta JA}$	60		℃/W
Operating junction temperature range	T_J	- 55 ----- + 150		℃
Storage temperature range	T_{STG}	- 55 ----- + 150		℃

NOTE: 1. Measured with I_F=0.5A, I_R=1A, I_{rr}=0.25A.
2. Measured at 1.0MH_Z and applied reverse voltage of 4.0V DC.
3. Thermal resistance from junction to ambient.

FIG.1--TEST CIRCUIT DIAGRAM AND REVERSE RECOVERY TIME CHARACTERISTIC



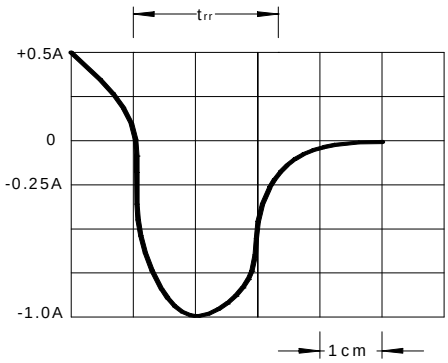


FIG.3 --FORWARD DERATING CURVE

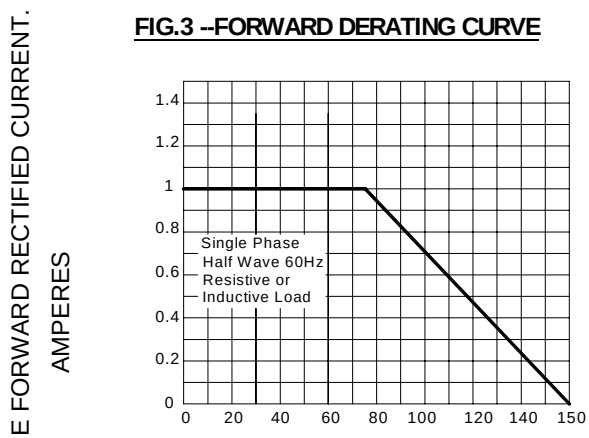


FIG.4--TYPICAL JUNCTION CAPACITANCE

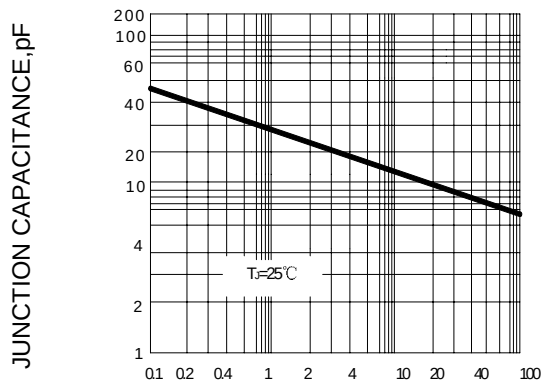


FIG.5--PEAK FORWARD SURGE CURRENT

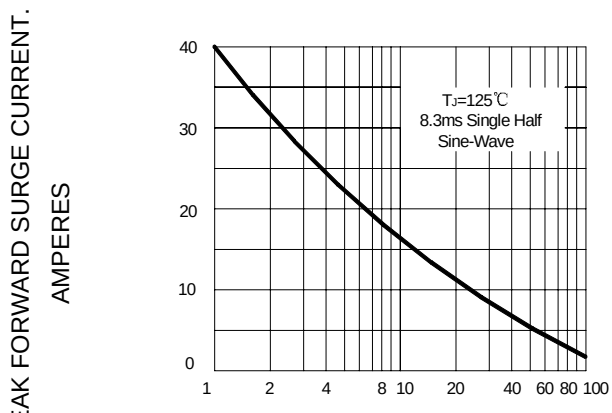


FIG.1 -- TYPICAL FORWARD CHARACTERISTIC