



ES3AB thru ES3JB

SURFACE MOUNT SUPER FAST GLASS PASSIVATED RECTIFIERS	REVERSE VOLTAGE - 50 to 600 Volts FORWARD CURRENT - 3.0 Amperes
FEATURES ● Super fast switching time for high efficiency ● Low forward voltage drop and high current capability ● Low reverse leakage current ● Plastic material has UL flammability classification 94V-0 MECHANICAL DATA ● Case: Molded Plastic ● Polarity: Color band denotes cathode ● Weight: 0.003 ounces, 0.093 grams ● Mounting position: Any	SMB Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25℃ ambient temperature unless otherwise specified.

Single phase, half wave ,60Hz, resistive or inductive load.

For capacitive load, derate current by 20%

CHARACTERISTICS	SYMBOL	ES3AB	ES3BB	ES3DB	ES3GB	ES3JB	UNIT
Maximum Recurrent Peak Reverse Voltage	VRRM	50	100	200	400	600	V
Maximum RMS Voltage	VRMS	35	70	140	280	420	V
Maximum DC Blocking Voltage	VDC	50	100	200	400	600	V
Maximum Average Forward Rectified Current @TA=55 ℃	l(AV)	3.0					A
Peak Forward Surge Current 8.3ms Single Half Sine-Wave Super Imposed on Rated Load(JEDEC Method)	lFSM	125					A
Peak Forward Voltage at 3.0A DC	VF	0.95			1.25	1.70	V
Maximum DC Reverse Current @TJ=25℃ at Rated DC Blocking Voltage @TJ=100℃	IR	5.0 100					μA
Maximum Reverse Recovery Time(Note 1)	TRR	35					nS
Typical Junction Capacitance (Note2)	CJ	70			45		pF
Typical Thermal Resistance (Note3)	RθJA	20					℃/W
Operating Temperature Range	TJ	-55 to +150					℃
Storage Temperature Range	TSTG	-55 to +150					℃

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



RATING AND CHARACTERISTIC CURVES
ES3AB thru ES3JB



FIG. 1 – FORWARD CURRENT DERATING CURVE

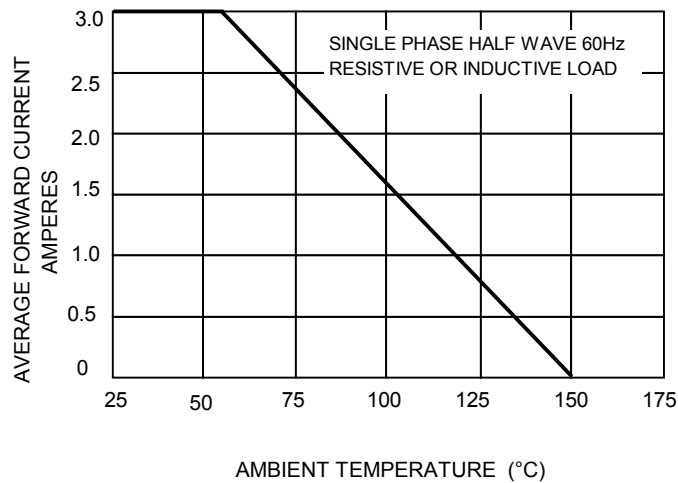


FIG. 2 – MAXIMUM NON-REPETITIVE SURGE CURRENT

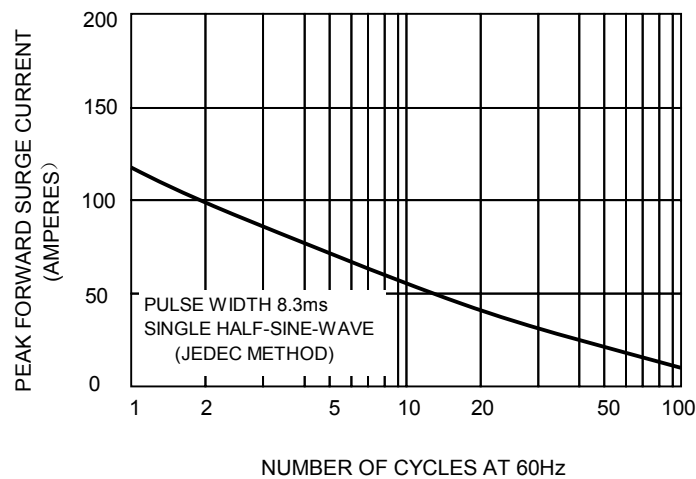


FIG.3 – TYPICAL JUNCTION CAPACITANCE

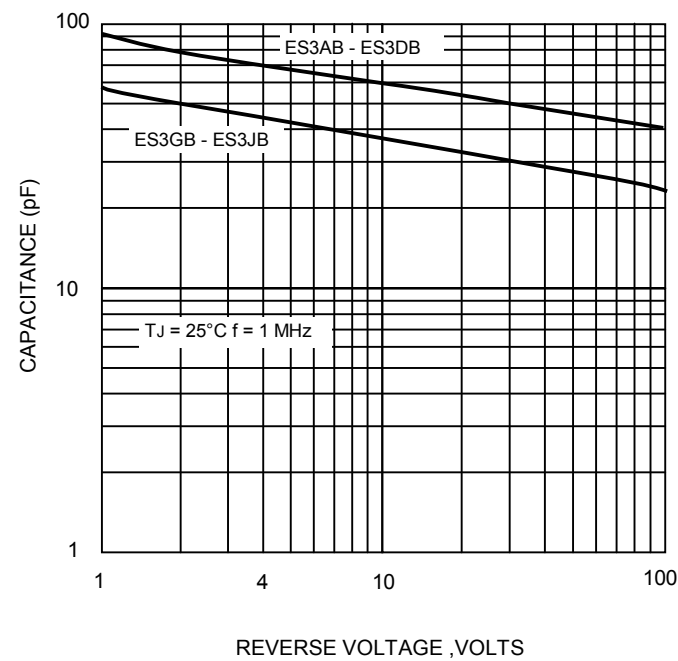


FIG.4-TYPICAL FORWARD CHARACTERISTICS

