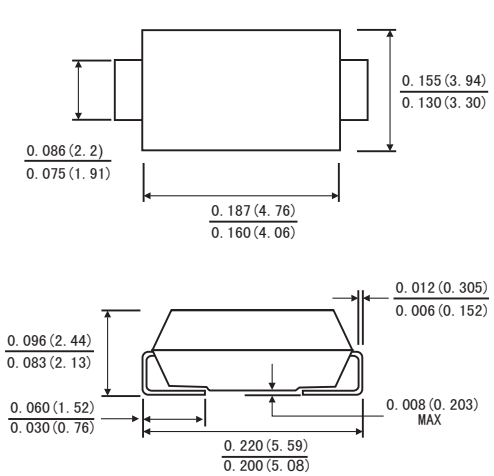
ES3AB THRU ES3JB

SURFACE MOUNT SUPER FAST RECTIFIER	ReverseVoltage:50to600Volts ForwardCurrent:3.0Amperes

DO-214AA/SMB



Dimensions in inches and (millimeters)

Features

- Glass passivated
- Ideal for surface mount automotive applications
- Ultrafast recovery time for high efficiency
- Built-in strain relief
- Easy pick and place
- Plastic package has Underwriters Laboratory Flammability
- Classification 94V-0
  Lead (Pb)-free component
- Component in accordance to RoHS 2011/65/EU
- High temperature soldering guaranteed:260˚C/10 seconds at terminals

Mechanical Data

- Case: JEDEC SMB(DO-214AA) molded plastic body
- Terminals: solder plated ,solderable per MIL-STD-750,method 2026
- Polarity: color band denotes cathode end
- Mounting Position: Any
- Weight: 0.003ounce,0.093 gram

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

(Rating 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	ES3AB	ES3BB	ES3DB	ES3FB	ES3GB	ES3JB	Units
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	50	100	200	300	400	600	Volts
Maximum RMS Voltage	V_{RMS}	35	70	140	210	280	420	Volts
Maximum DC Blocking Voltage	V_{DC}	50	100	200	300	400	600	Volts
Maximum Average Forward Rectified Current At T_L=110°C	$I_{(AV)}$	3.0						Amps
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load	I_{FSM}	100						Amps
Maximum Instantaneous Forward Voltage at 3.0 A	V_F	0.95			1.25		1.7	Volts
Maximum DC Reverse Current At Rated DC Blocking Voltage T_A=25°C	I_R	10						μA
Maximum DC Reverse Current At Rated DC Blocking Voltage T_A=125°C	I_R	500						μA
Maximum Reverse Recovery Time(Note1)	Trr	35						ns
Typical Junction Capacitance(Note2)	C_J	45						pF
Typical Thermal Resistance (NOTE3)	$R_{\theta JA}$	70						℃/W
Operating Junction and Storage Temperature	T_J, T_{STG}	-55 to+150						℃

Note: 1.Reverse Recovery Test conditions: I_F=0.5A,I_R=1.0A,I_{RR}=0.25A.

2.Measured at 1MHz and applied reverse voltage of 4.0 Volts.

3. Thermal Resistance From Junction To Ambient P. C. B. Mounted On 0. 2x0. 2″(5. 0x5. 0mm)Copper Pad Areas.

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

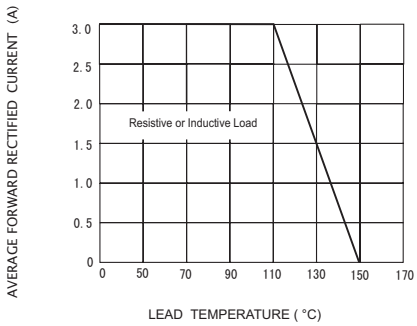


FIG.2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

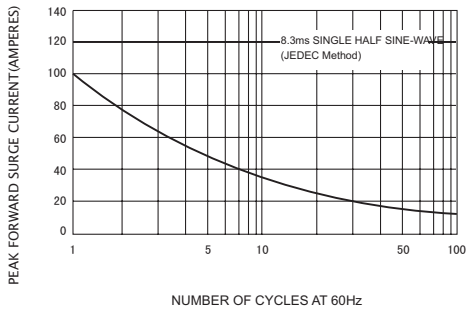


FIG.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

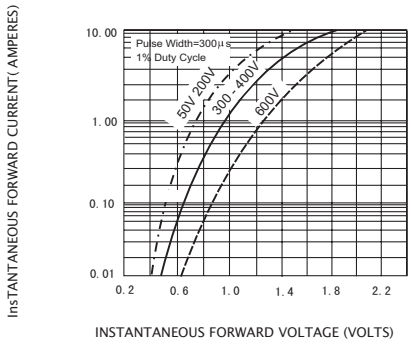


FIG.4-TYPICAL REVERSE CHARACTERISTICS

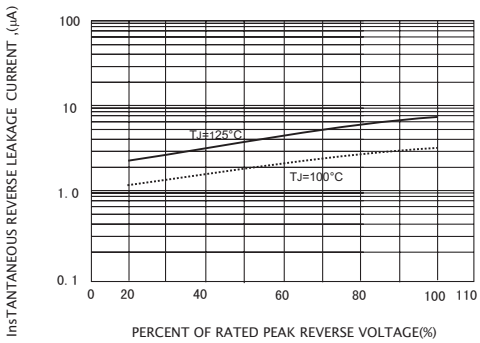
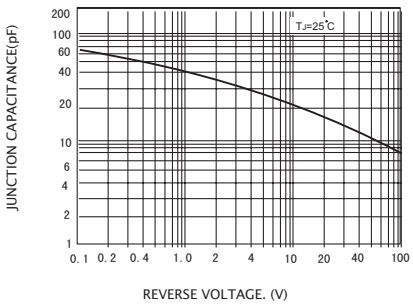


FIG.5-TYPICAL JUNCTION CAPACITANCE



单击下面可查看定价，库存，交付和生命周期等信息

>>DIOS(迪恩思)