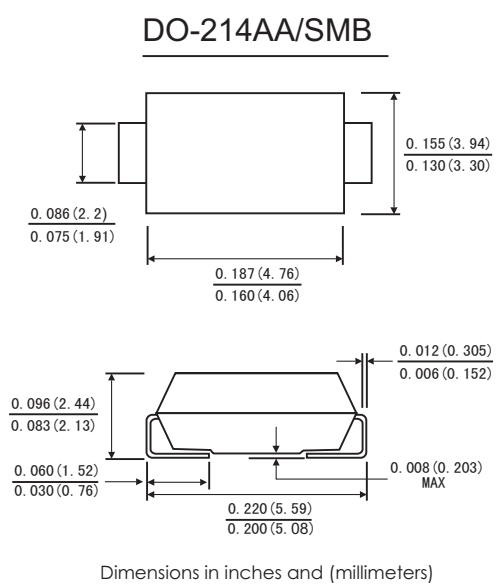


**SURFACE MOUNT SUPER FAST RECTIFIER**      Reverse Voltage: 50 to 600 Volts  
Forward Current: 3.0 Amperes



- ### 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: 0.003 ounce, 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 $T_L=110^\circ\text{C}$	$I_{(AV)}$	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	$T_A=25^\circ\text{C}$	10						$\mu\text{A}$
	$T_A=125^\circ\text{C}$	500						
Maximum Reverse Recovery Time(Note1)	$T_{rr}$	35						ns
Typical Junction Capacitance(Note2)	$C_j$	45						pF
Typical Thermal Resistance (NOTE3)	$R_{\theta JA}$	70						$^\circ\text{C/W}$
Operating Junction and Storage Temperature	$T_J, T_{STG}$	-55 to +150						$^\circ\text{C}$

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

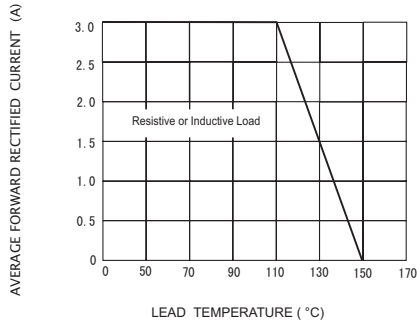


FIG.2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

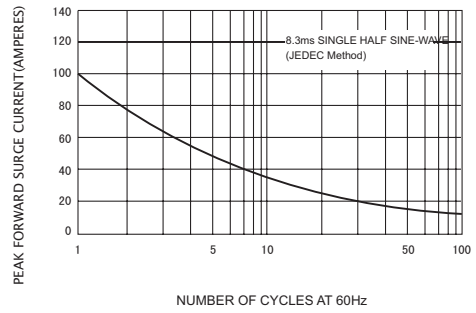


FIG.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

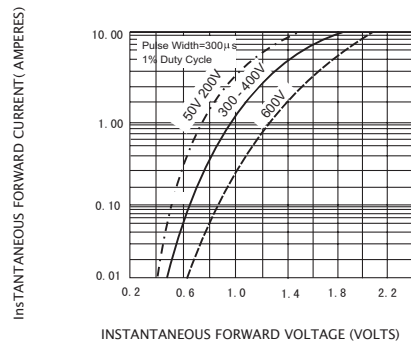


FIG.4-TYPICAL REVERSE CHARACTERISTICS

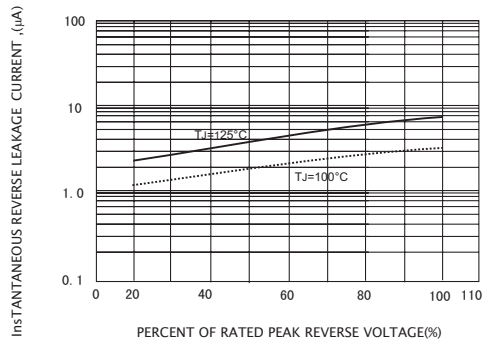
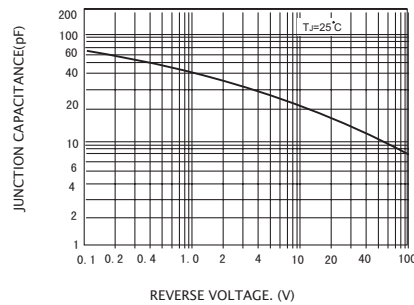


FIG.5-TYPICAL JUNCTION CAPACITANCE



单击下面可查看定价，库存，交付和生命周期等信息

[>>DIOS\(迪恩思\)](#)