



Features

- Average Forward Current: $I_{F(AV)}=2A$
- Polarity: Color band denotes cathode

Package Marking and Ordering Information

Product ID	Pack	Marking	Qty(PCS)
ES2AB-ES2JB	SMA	ES2★	2000



SMB

★:From A-J

Maxmim Ratings (Ta=25 unless otherwise noted)

Item	Symbol	Unit	Test Conditions	ES2							
				AB	BB	CB	DB	EB	GB	HB	JB
Repetitive Peak Reverse Voltage	V_{RRM}	V		50	100	150	200	300	400	500	600
Maximum RMS Voltage	V_{RMS}	V		35	70	105	140	210	280	350	420
Average Forward Current	$I_{F(AV)}$	A	60Hz Half-sine wave, Resistance load, $T_a=110\text{ }^\circ\text{C}$	2.0							
Surge(Non-repetitive)Forward Current	I_{FSM}	A	60Hz Half-sine wave, 1 cycle, $T_a=25\text{ }^\circ\text{C}$	50							
Operation Junction and Storage Temperature Range	T_J, T_{STG}	$^\circ\text{C}$		-55 ~ +150							

Electrcal Charcteristics (Ta=25 unless otherwise specified)

Item	Symbol	Unit	Test Condition	ES2							
				AB	BB	CB	DB	EB	GB	HB	JB
Peak Forward Voltage	V_F	V	$I_F=2.0A$	0.95			1.25		1.7		
Maximum reverse recovery time	t_{rr}	ns	$I_F=0.5A, I_R=1.0A, I_{rr}=0.25A$	35							
Peak Reverse Current	I_{RRM1}	μA	$V_{RM}=V_{RRM}$	$T_a=25\text{ }^\circ\text{C}$				5.0			
	I_{RRM2}			$T_a=125\text{ }^\circ\text{C}$				50			
Thermal Resistance(Typical)	$R_{\theta J-A}$	$^\circ\text{C/W}$	Between junction and ambient	65							
	$R_{\theta J-L}$		Between junction and terminal	18							
Juction Capacitance (Typical)	C_j	pF	Measured at 1MHZ and Applied Reverse Voltage of 4.0 V.D.C	26				20			

Notes:

Thermal resistance from junction to ambient and from junction to lead mounted on P.C.B. with 0.27" x 0.27" (7.0 mm x 7.0 mm) copper pad areas



Typical Characteristics

FIG.1: FORWARD CURRENT DERATING CURVE

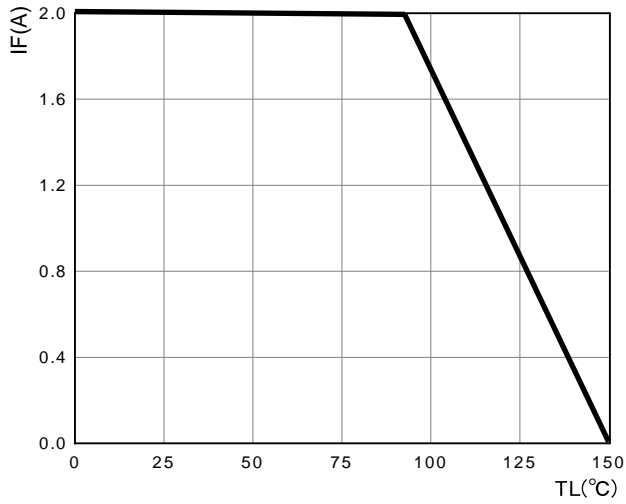

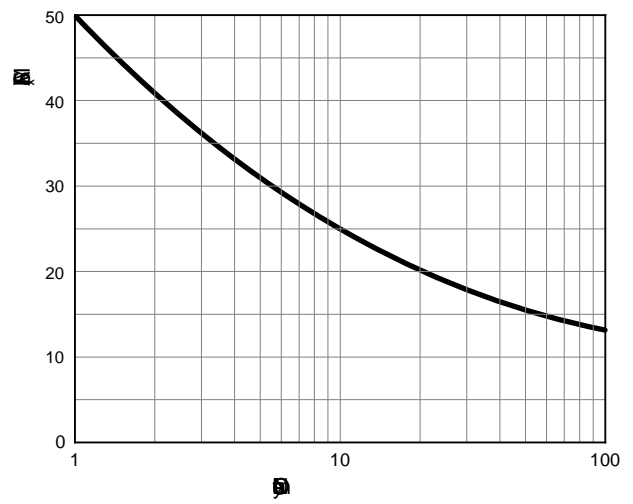
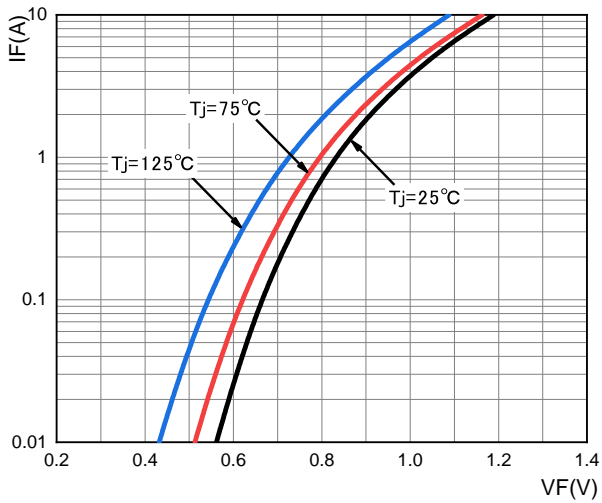


FIG 2: 



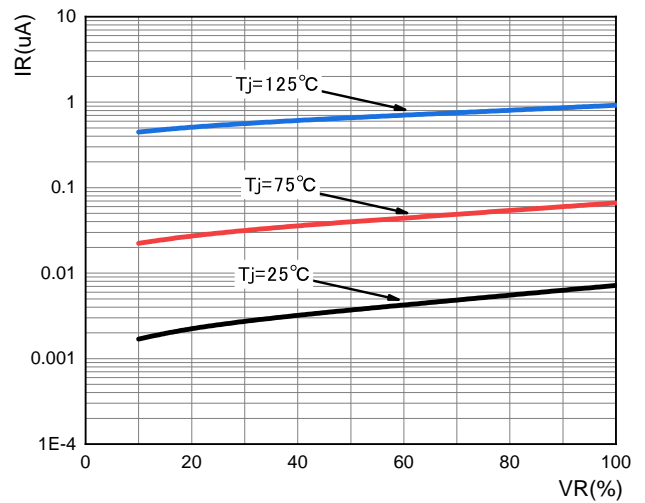
ES2A-ES2D

FIG.3 : TYPICAL FORWARD CHARACTERISTICS



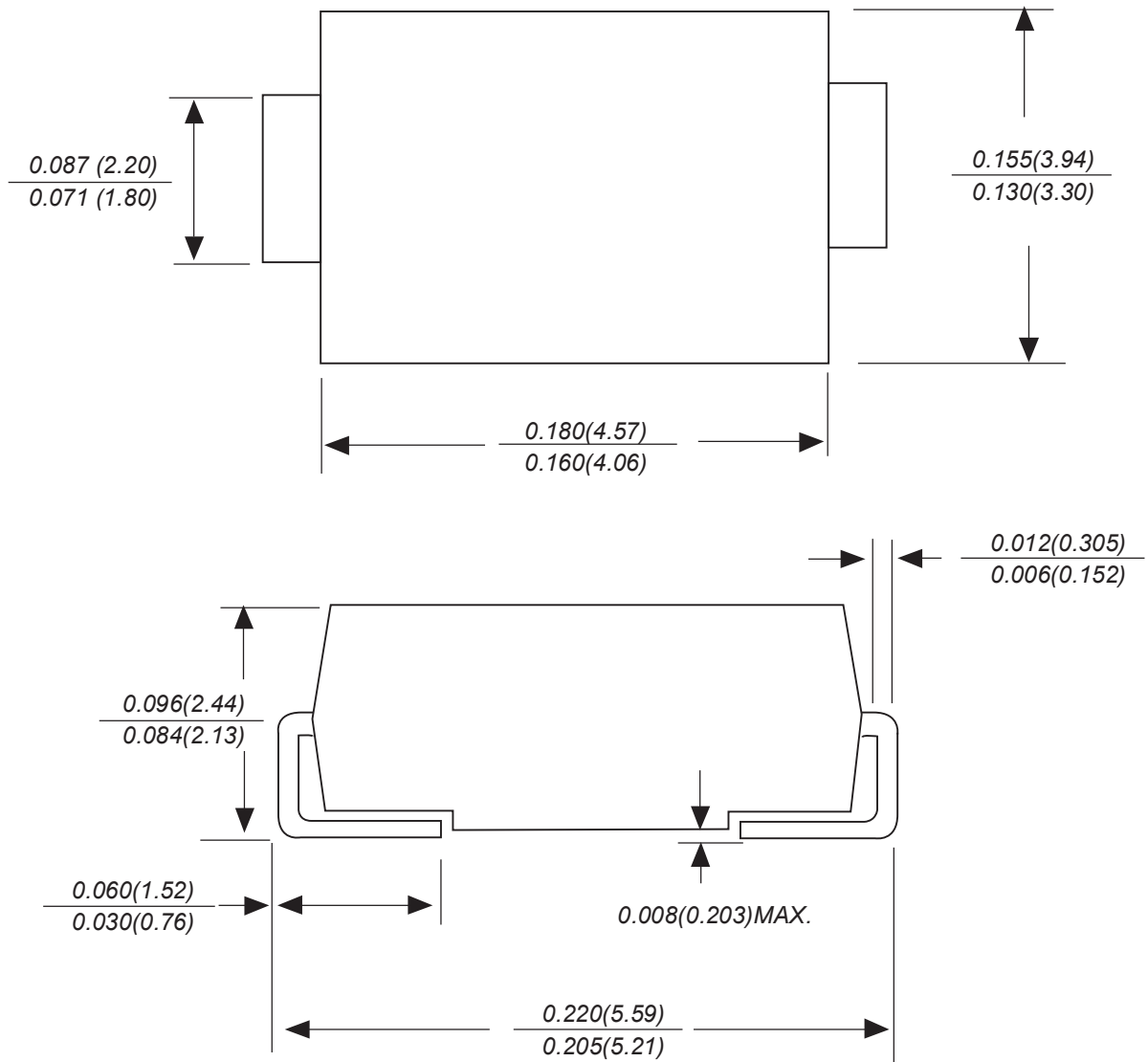
ES2A-ES2D

FIG.4 TYPICAL REVERSE CHARACTERISTICS





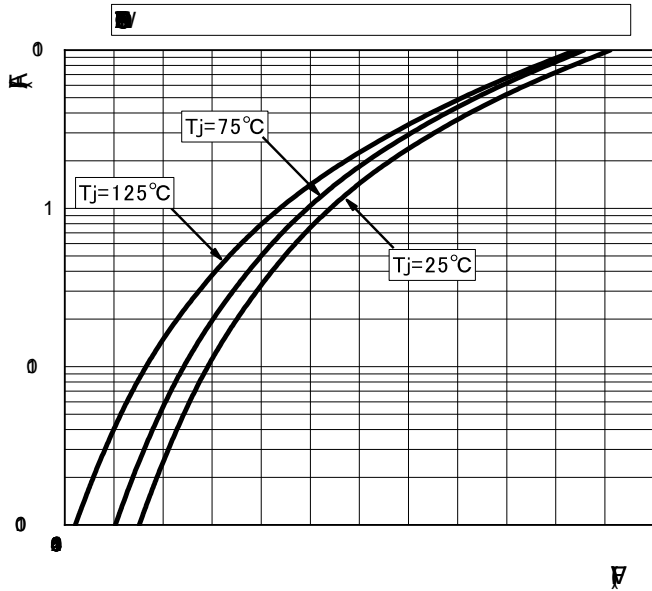
SMB Package Outline Dimensions



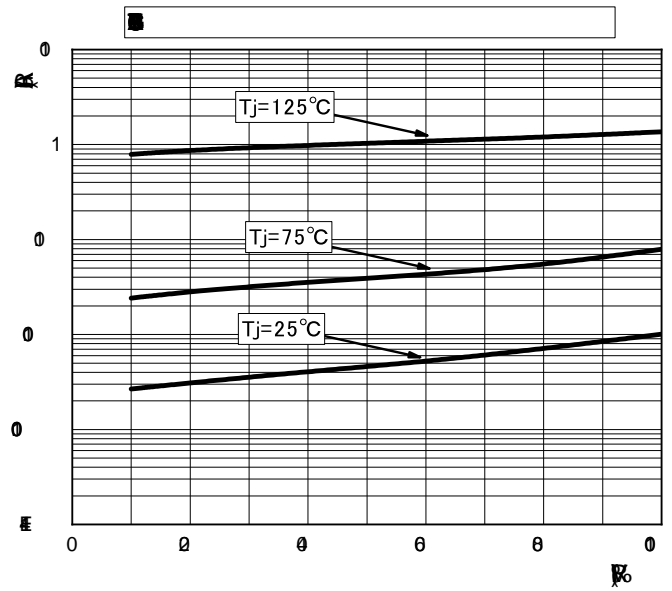
Dimensions in inches and (millimeters)



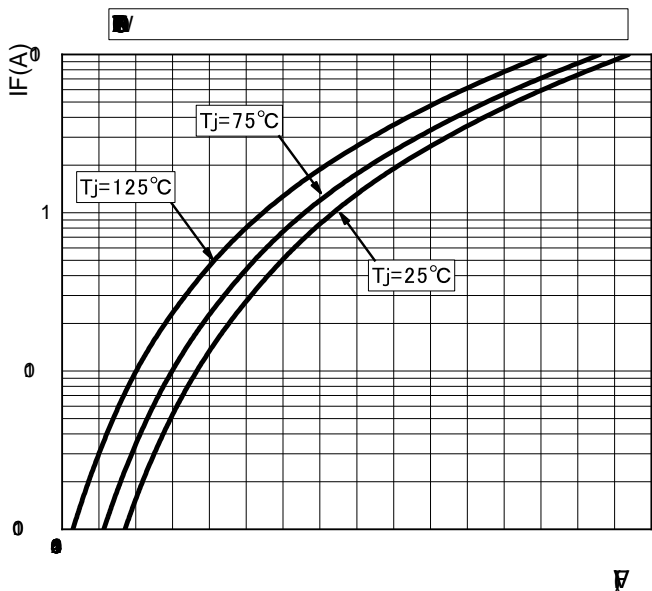
ES2EB-ES2GB



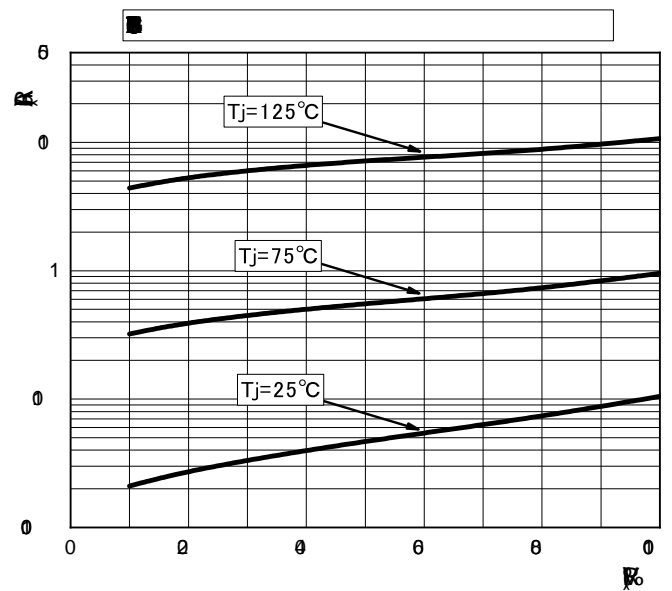
ES2EB-ES2GB



ES2HB-ES2JB

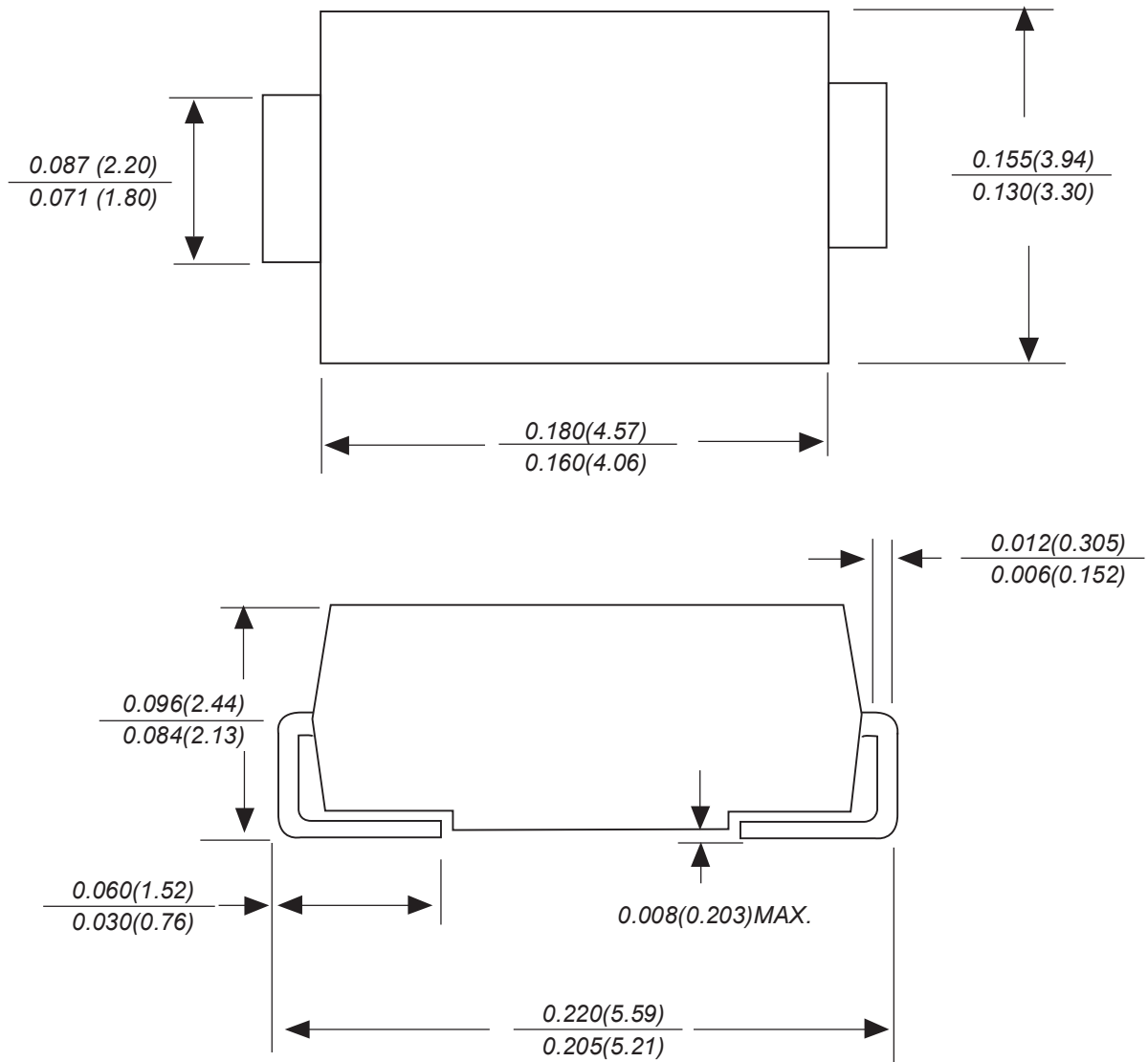


ES2HB-ES2JB





SMB Package Outline Dimensions



Dimensions in inches and (millimeters)



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