



Features

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



SMB
(DO-214AA)



Package Marking and Ordering Information

Product ID	Pack	Marking	Qty(PCS)
ES2AB-ES2JB	SMB (DO-214AA)	ES2x	3000

x: 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, $T_a=110^{\circ}C$	2.0							
Surge(Non-repetitive)Forward Current	I_{FSM}	A	60Hz Half-sine wave, 1 cycle, $T_a=25^{\circ}C$	50							
Operation Junction and Storage Temperature Range	T_J, T_{STG}	$^{\circ}C$		-55 ~ +150							

Electrcal Charcteristics (Ta=25 unless otherwise specified)

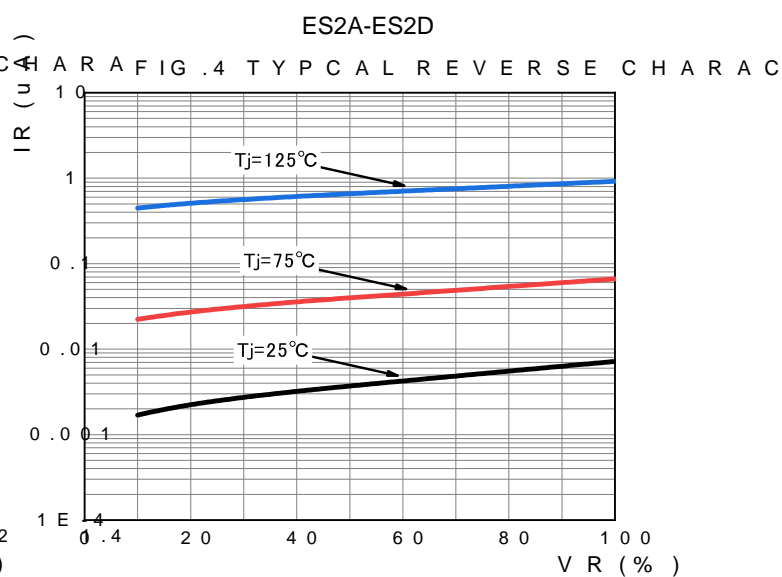
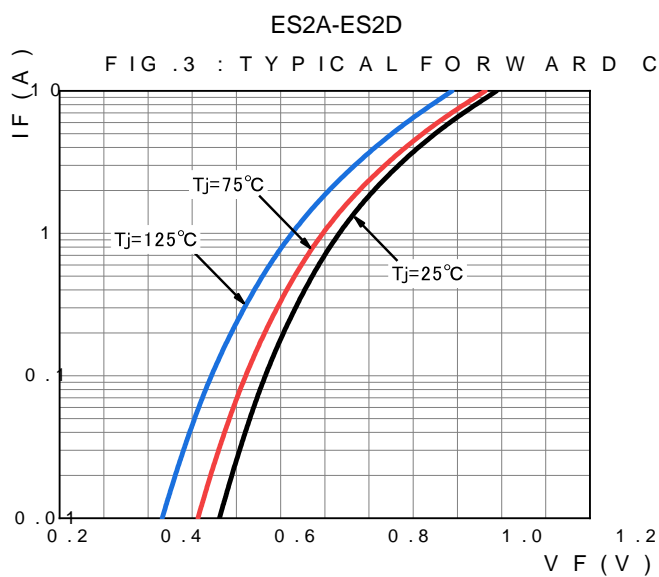
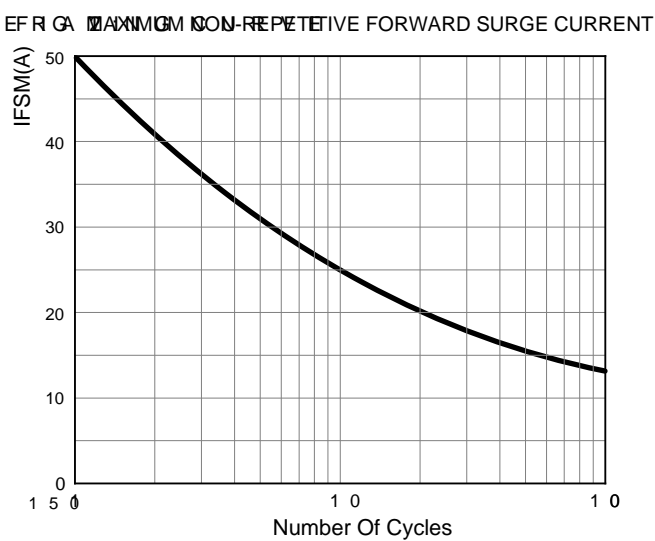
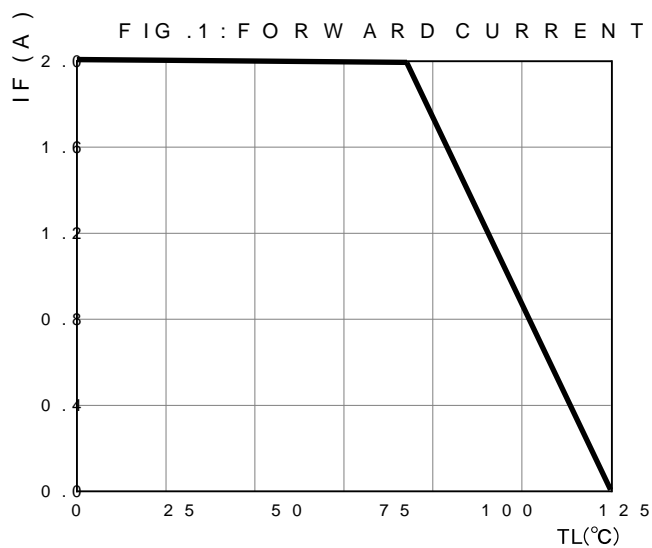
Item	Symbol	Unit	Test Condition		ES2							
					AB	BB	CB	DB	EB	GB	HB	JB
Peak Forward Voltage	V _F	V	I _F =2.0A		0.95				1.25		1.7	
Maximum reverse recovery time	t _{rr}	ns	I _F =0.5A,I _R =1.0A,I _{rr} =0.25A		35							
Peak Reverse Current	I _{RRM1}	μA	V _{RM} =V _{RRM}	T _a =25℃	5.0							
	T _a =125℃			50								
Thermal Resistance(Typical)	R _{θJ-A}	℃/W	Between junction and ambient		65							
	R _{θJ-L}		Between junction and terminal		18							
Juction Capacitance (Typical)	Cj	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



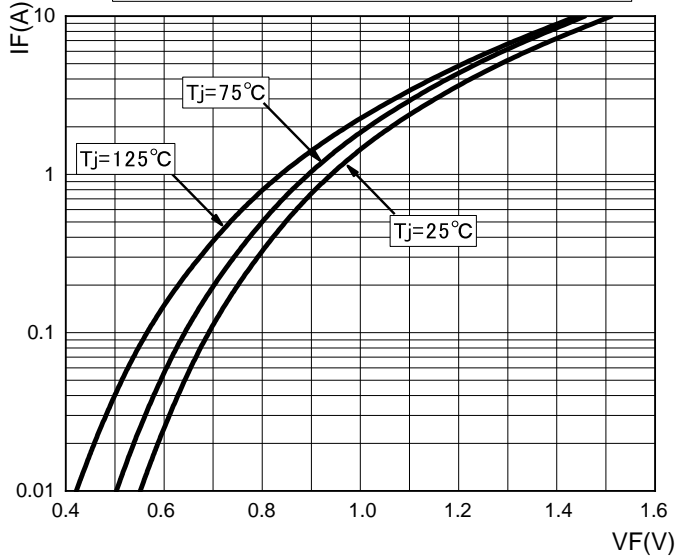
Typical Characteristics





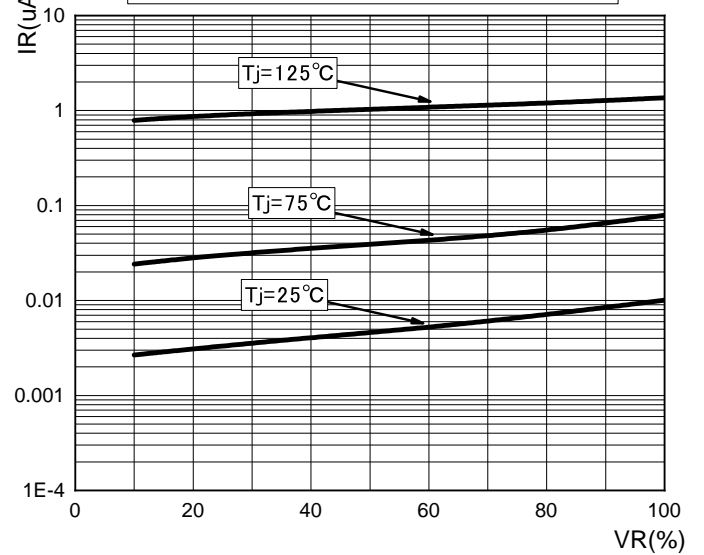
ES2EB-ES2GB

FIG.5 : TYPICAL FORWARD CHARACTERISTICS



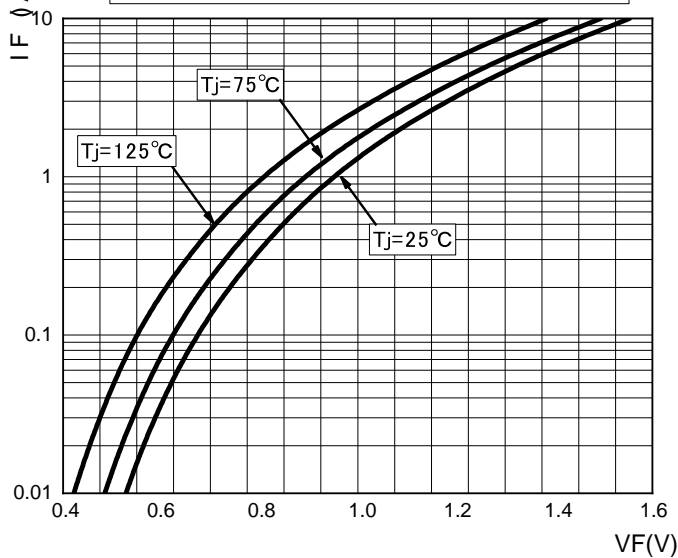
ES2EB-ES2GB

FIG.6 TYPICAL REVERSE CHARACTERISTICS



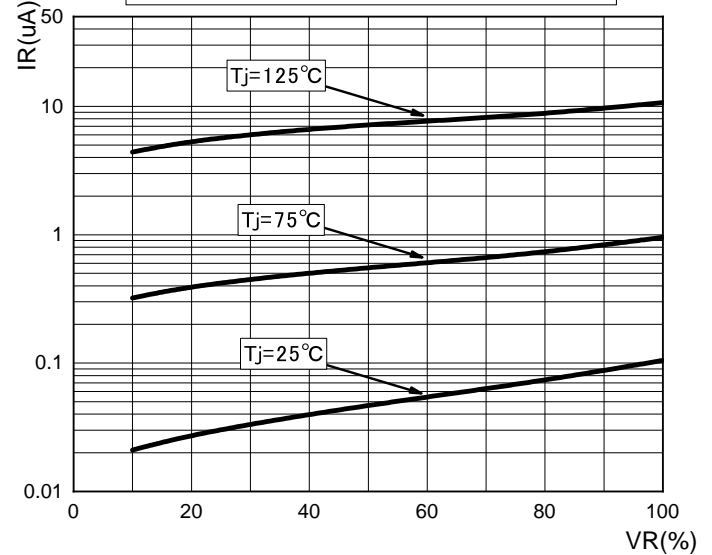
ES2HB-ES2JB

FIG.7 : TYPICAL FORWARD CHARACTERISTICS



ES2HB-ES2JB

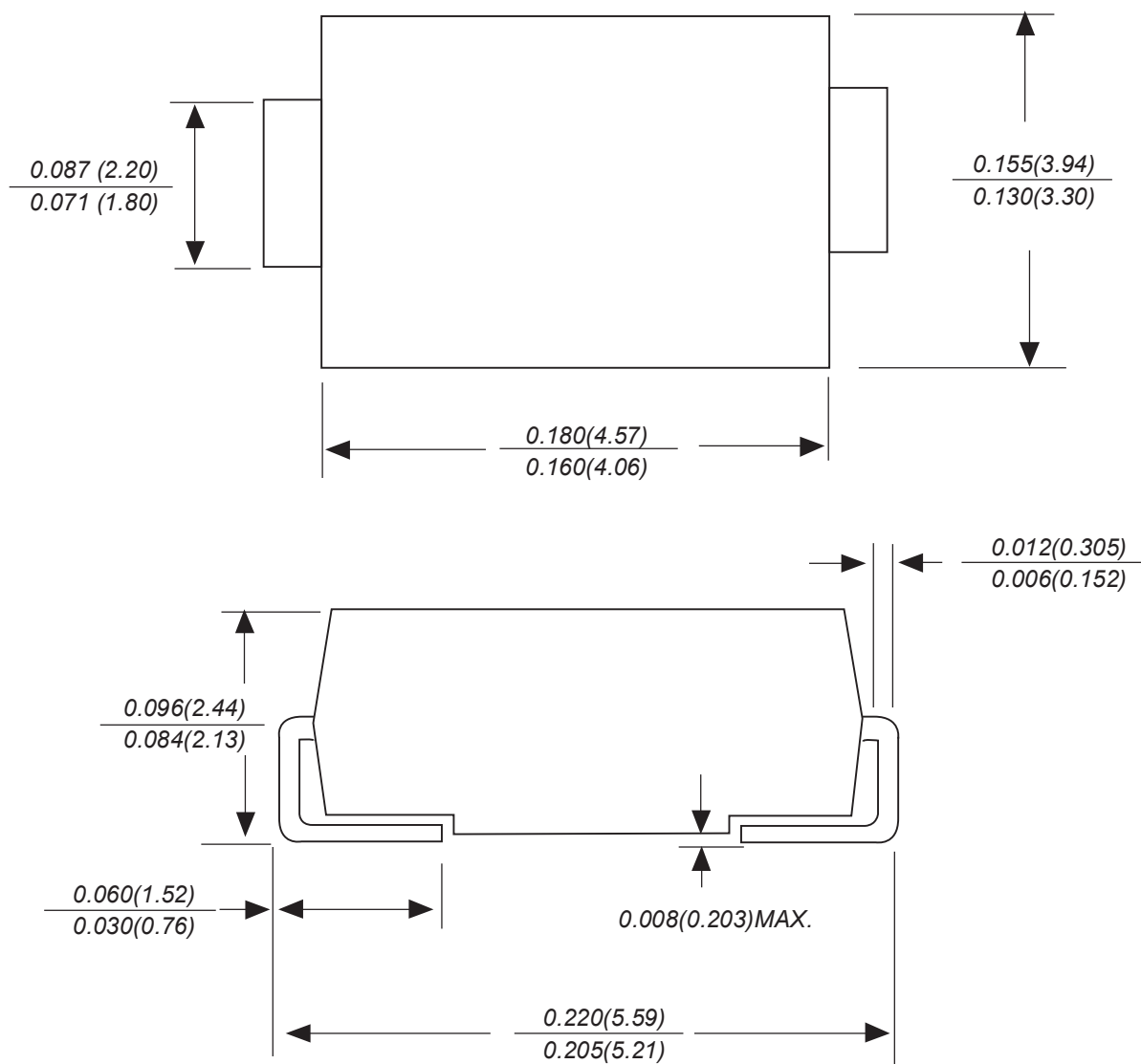
FIG.8 TYPICAL REVERSE CHARACTERISTICS





Package Outline Dimensions

SMB(DO-214AA)



Dimensions in inches and (millimeters)



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