

ES5AB~ES5JB SUPER FAST RECOVERY RECTIFIER

e (R 7 4 1 (v) 3 5 1 7 (. J) 2 0 3 1 6 0 2 1 0 2 1 4 5 5)
classification 94V-0

- For surface mounted applications in order to optimize board space
- Glass passivated chip junction
- Lead free in comply with EU RoHS 2011/65/EU directives
- Super fast recovery time

DO-214AA(SMB)

Symbol

MECHANICAL DATA

- Case: JEDEC DO-214AA molded plastic
- Terminals: Solder plated, solderable per J-STD-002
- Polarity: Color band denotes cathode end
- Weight: 0.1 gram

ABSOLUTE MAXIMUM RATING AND ELECTRICAL CHARACTERISTICS

(Rating at 25 ambient temperature unless otherwise specified.)

Parameter	Symbol	ES5AB	ES5BB	ES5DB	ES5GB	ES5JB	Unit
Maximum repetitive peak reverse voltage	V_{RRM}	50	100	200	400	600	V
Maximum RMS voltage	V_{RMS}	35	70	140	280	420	V
Maximum DC blocking voltage	V_{DC}	50	100	200	400	600	V
Maximum average forward current at $T_L=75$	$I_{F(AV)}$	5.0					A
Peak forward surge current: 8.3ms single half sine-wave superimposed on rated load	I_{FSM}	120					A
Maximum forward voltage @ $I_F=5.0A$	V_F	0.95			1.3	1.7	V
Maximum DC reverse current at rated DC blocking voltage	$T_j=25$	5.0					A
	$T_j=150$	500					
Typical junction capacitance $V_R=4.0V, f=1MHz$	C_J	65			50		pF
Operating junction and storage temperature range	T_j, T_{stg}	-55 to +150					
Maximum reverse recovery time $I_F=0.5A, I_R=1A, I_{rr}=0.25A$	t_{rr}	35					ns

THERMAL RESISTANCES

Symbol	Parameter	ES5AB	ES5BB	ES5DB	ES5GB	ES5JB	Unit
$R_{th(j-L)}$	Junction to lead(note1)	18					/W

Note1 Thermal resistance from junction to lead mounted on P.C.B. with 4.0 mm x 4.0 mm copper pad areas.

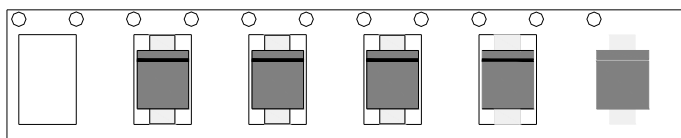
MARKING

PACKAGE MECHANICAL DATA

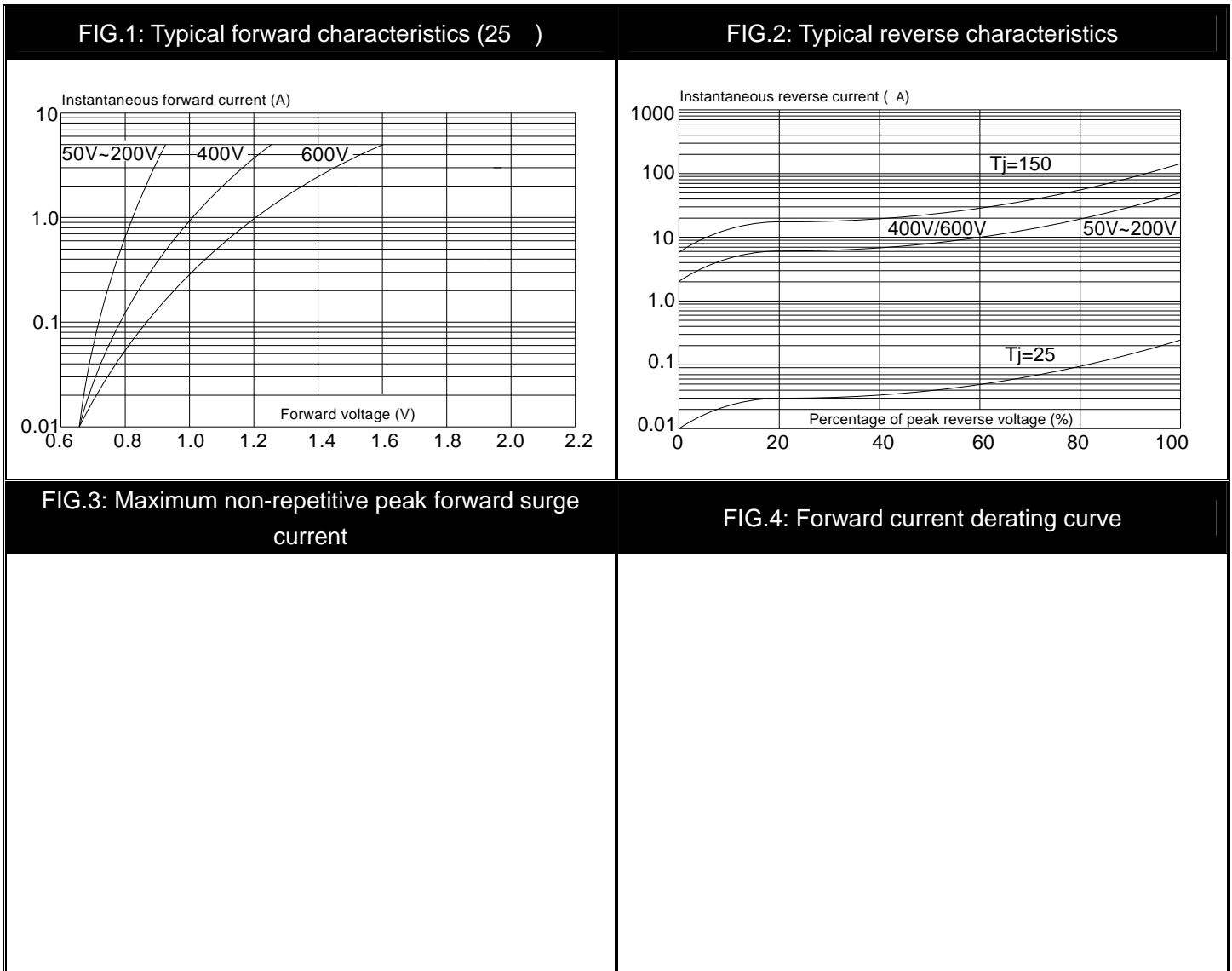


Ref.	Dimensions			
	Millimeters		Inches	
	Min.			
A				
B				
C				
D	0.95			
E				
F	0.051			
G	0.15			

TAPE AND REEL SPECIFICATION-SMB



CHARACTERISTICS CURVE



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