Surface Mount Superfast Recovery Rectifier

Reverse Voltage - 1000 V

Forward Current - 8 A

Pinning

1.Cathode	2.Anode

DO-214AB/SMC

Marking Code	
ES8MC	YFW ES8M

FEATURES

- Glass Passivated Chip Junction
- For surface mounted applications
- Low profile package
- Superfast reverse recovery time
- Lead free in comply with EU RoHS 2011/65/EU directives

MECHANICAL DATA

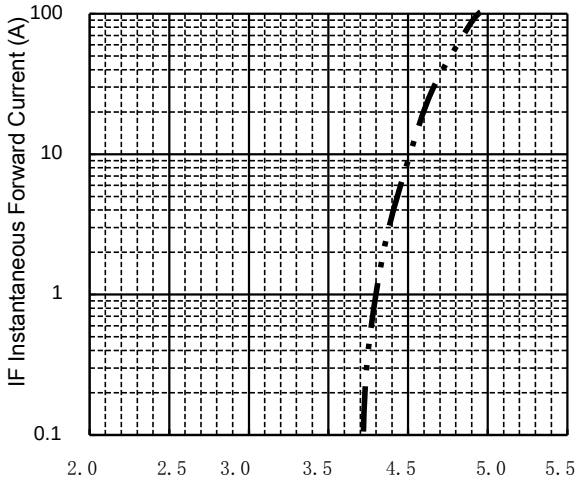
- Case: DO-214AB/SMC
- Terminals: Solderable per MIL-STD-750, Method 2026
- Approx. Weight: 0.22g / 0.0077oz

Absolute Maximum Ratings and characteristics

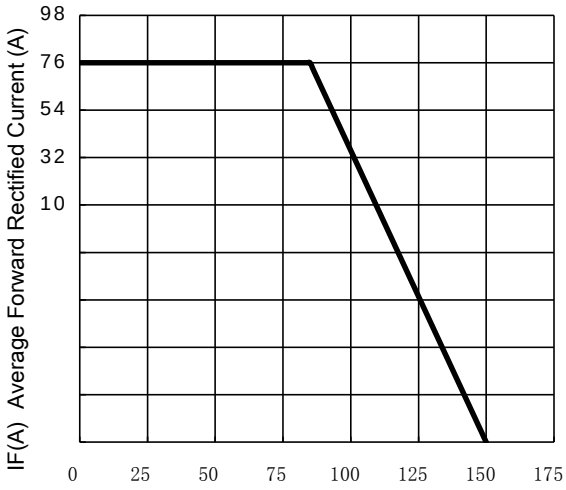
Ratings at 25 °C ambient temperature unless otherwise specified.
Single phase half-wave 60 Hz, resistive or inductive load, for capacitive load current derate by 20 %.

Parameter	Symbols	ES8MC	Units
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	1000	V
Maximum RMS voltage	V_{RMS}	700	V
Maximum DC Blocking Voltage	V_{DC}	1000	V
Maximum Average Forward Rectified Current	$I_{F(AV)}$	8.0	A
Peak Forward Surge Current 8.3 ms Single Half Sine Wave Superimposed on Rated Load	I_{FSM}	150	A
Maximum Instantaneous Forward Voltage at 8 A	V_F	4.5	V
Maximum DC Reverse Current T_a = 25 °C at Rated DC Blocking Voltage T_a=125 °C	I_R	5 100	μA
Maximum Reverse Recovery Time	Trr	35	nS
Typical thermal resistance	$R_{\theta JA}$	65	°C/W
Typical Junction Capacitance at V_R=4V,f=1MHZ	C_j	280	pF
Operating and Storage Temperature Range	T_j, T_{stg}	-55 ~ +150	°C

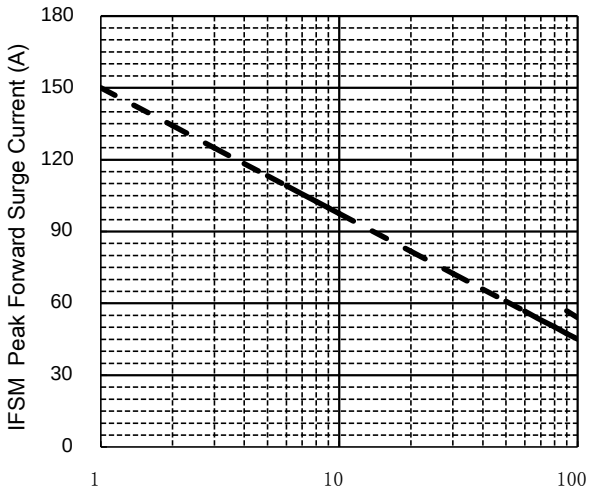
FORWARD CHARACTERISTIC



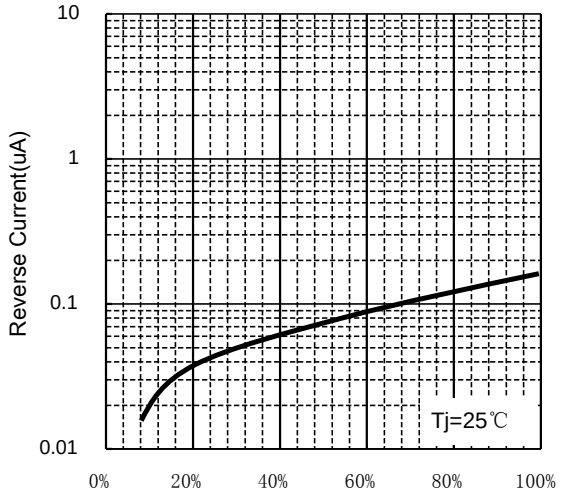
FORWARDCURRENTDERATINGCURVE



MAXIMUM NON REPETITIVE
PEAK FORWARD SURGE CURRENT



Typical Reverse Characteristics



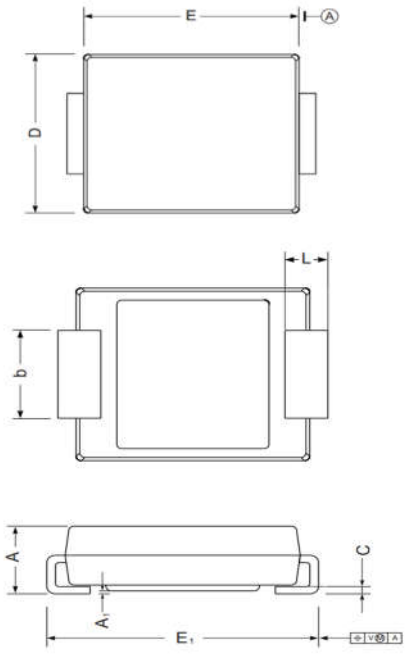
Marking Diagram

Ordering information

Package	Packing Description	Packing Quantity
DO-214AB SMC	Tape/Reel,13"reel	3000PCS/Reel 30000PCS/Carton

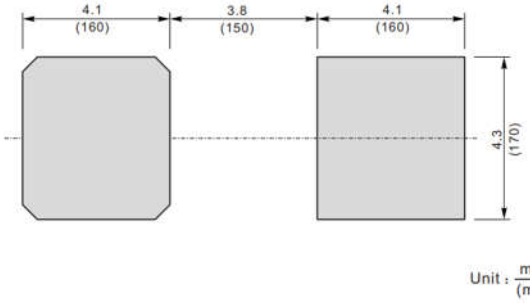
Package Dimensions

DO-214AB SMC



Dim.	Millimeter(mm)		mil	
	Min.	Max.	Min.	Max.
A	2.00	2.62	79	103
E	6.5	7.0	256	276
D	5.6	6.2	220	244
E_1	7.6	8.0	299	315
A1	0.05	0.21	2.0	8.3
C	0.15	0.31	5.9	12
L	0.9	1.6	35	63
b	2.75	3.25	108	128

The recommended mounting pad size



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