

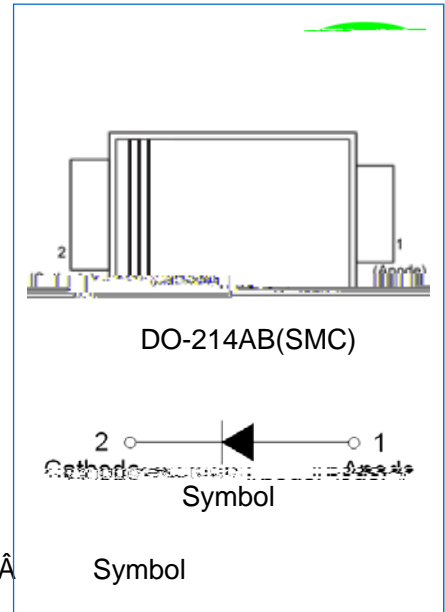


JEUR0506SC
EPI ULTRA FAST SOFT RECOVERY RECTIFIER

Rev.1.4

DESCRIPTION

Plastic package has underwriters laboratory flammability classification 94 M



MECHANICAL DATA

Case: JEDEC DO-214AB molded plastic
Terminals: Solder

		JEUR0506SC	Unit
Maximum repetitive peak reverse voltage	V_{RRM}	600	V
Maximum DC blocking voltage	V_{DC}	600	V
Average forward current at $T_C=110$	$I_{F(AV)}$	5	A
Peak forward surge current: 8.3ms single half sine-wave superimposed on rated load	I_{FSM}	110	A
Operating junction and storage temperature range	T_j, T_{stg}	-55 to +150	

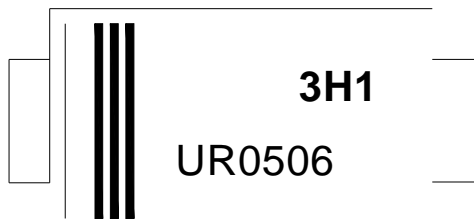
ELECTRICAL CHARACTERISTICS(Rating at 25 ambient temperature unless otherwise specified.)

Parameter		Symbol	Min.	Typ.	Max.	Unit
Forward voltage	$I_F=5A, T_j=25$	V_F	-	-	1.3	V
Reverse current	$V_R=600V, T_j=25$	I_R	-	-	5	μA
	$V_R=600V, T_j=150$		-	-	200	
Reverse recovery time	$I_F=0.5A, I_R=1A,$ $I_{rr}=0.25A$	t_{rr}	-	-	50	ns

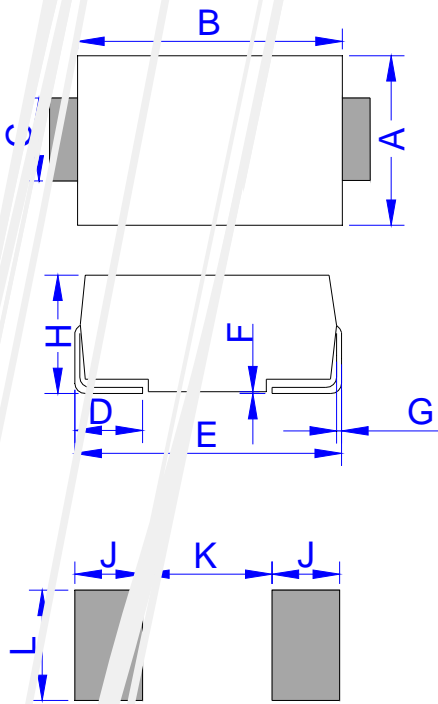
THERMAL RESISTANCES

Symbol	Parameter	Min.	Typ.	Max.	Unit
$R_{th(j-a)}$	Junction to ambient thermal resistance per diode	-	45	-	$/W$
$R_{th(j-c)}$	Junction to case thermal resistance per diode	-	8.5	-	$/W$

MARKING



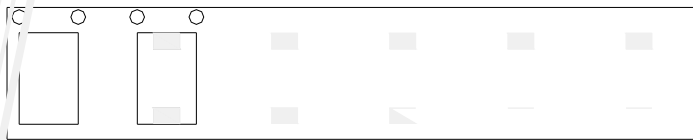
PACKAGE MECHANICAL DATA



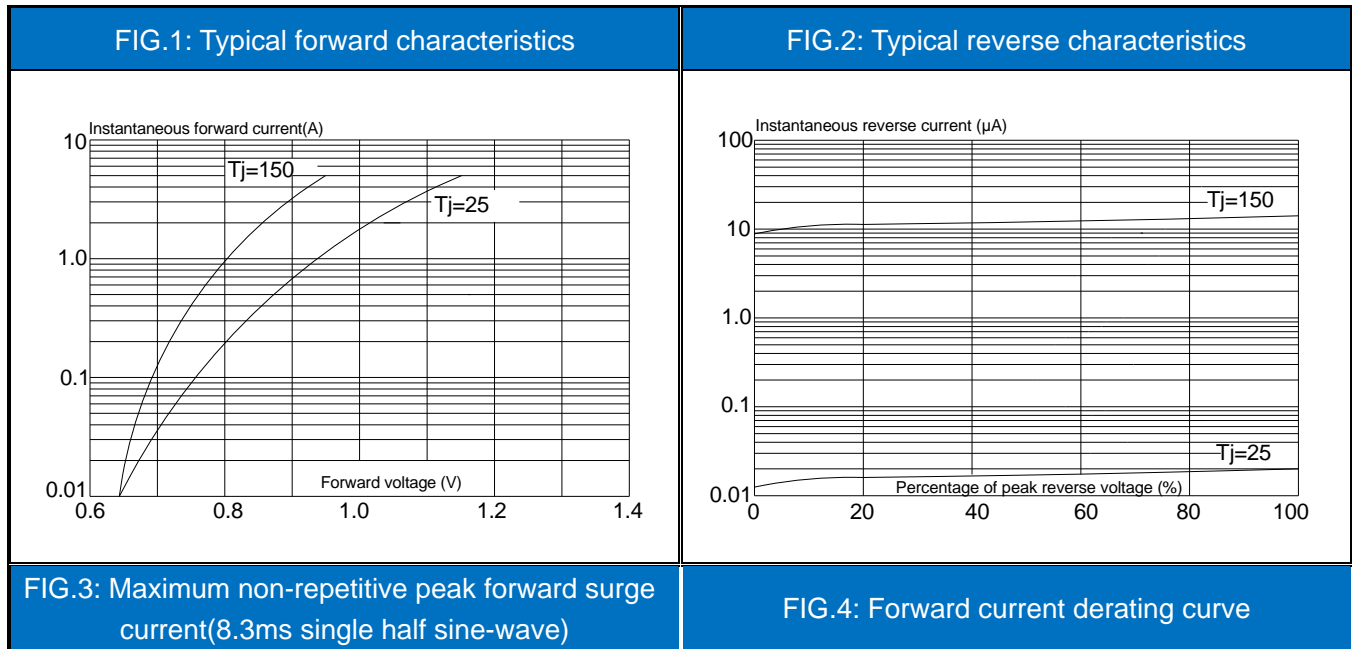
DC-214AB (SMC)

Ref.	Dimensions			
	Millimeters		Inches	
	Min.	Max.	Min.	Max.
A	5.75	6.25	0.226	0.246
B	6.90	7.40	0.272	0.291
C	2.75	3.25	0.108	0.128
D	0.95	1.52	0.037	0.060
E	7.70	8.20	0.303	0.323
F	0.051	0.203	0.002	0.008
G	0.15	0.31	0.006	0.012
H	2.15	2.62	0.085	0.103
J	2.40		0.094	
K		4.20		0.165
L	3.30		0.130	

TAPE AND REEL SPECIFICATION-SMC



CHARACTERISTICS CURVE



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