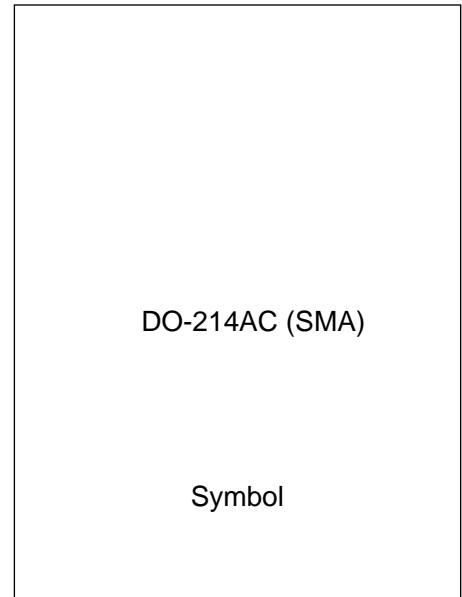


JIEJIE MICROELECTRONICS CO. , Ltd



MECHANICAL DATA

- Case: SMA molded plastic
- Terminals: Solder plated, solderable per J-STD-002
- Polarity: Color band denotes cathode end

ABSOLUTE MAXIMUM RATING (Rating at 25 °C ambient temperature unless otherwise specified.)

Parameter	Symbol	JSPX5150A	Unit
Maximum repetitive peak reverse voltage	V_{RRM}	150	V
Maximum RMS voltage	V_{RMS}	105	V
Maximum DC blocking voltage	V_{DC}	150	V
Maximum average forward current	$I_{F(AV)}$	5.0	A
Peak forward surge current: 8.3ms single half sine-wave superimposed on rated load	I_{FSM}	120	A
Operating junction temperature range	T_j	-55 to +150	
Storage temperature range	T_{stg}	-55 to +150	

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

Parameter	Symbol	Min	Typ	Max	Unit
Forward voltage	$I_F=5A$	V_F		0.9	V
Reverse current at rated DC blocking voltage	$T_A=25$	I_R		0.1	mA
	$T_A=100$			15	
Junction capacitance	$V_R=4.0V, f=1MHz$	C_J	160		pF

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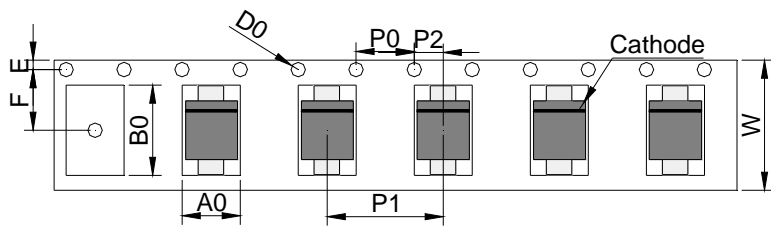
—Lead free in compliance with EU RoHS 2011/65/EU directive

—Ultra low forward voltage drop

—Low power losses, high efficiency operation

—High current capability and surge capability

TAPE AND REEL SPECIFICATION-SMA



CHARACTERISTICS CURVE

FIG.1: Typical forward characteristics (25)

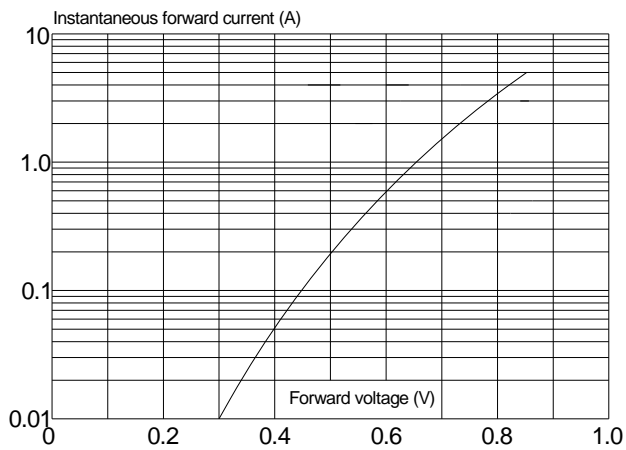
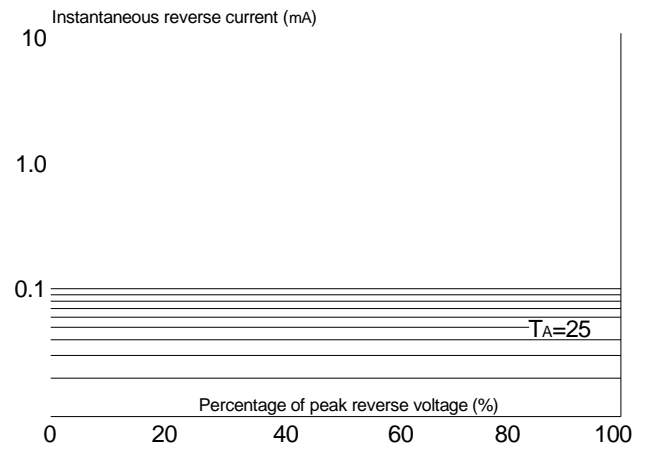


FIG.2: Typical reverse characteristics



CHARACTERISTICS CURVE

FIG.3: Maximum non-repetitive peak forward surge
current