



JSPX140A

1A Schottky Barrier Rectifier

Rev.1.2

DESCRIPTION

Plastic package has underwriters laboratories flammability classification 94V-0

For surface mounted applications in order to optimize board space

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

Low thermal resistance package

MECHANICAL DATA

Case: SMA molded p01htic

Terminals: Solder p01ted, solderable per J-STD-002

Polarity: Color band denotes cathode end

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

Parameter	Symbol	JSPX140A	Unit
Maximum repetitive peak reverse voltage	V_{RRM}	40	V
Maximum RMS voltage	V_{RMS}	28	V
Maximum DC blocking voltage	V_{DC}	40	V
Maximum average forward current	$I_{F(AV)}$	1.0	A
Peak forward surge current: 8.3ms single half sine-wave superimposed on rated load	I_{FSM}	30	A
Operating junction temperature range	T_j	-55 to +125	
Storage temperature range	T_{stg}	-55 to +150	

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

Parameter	Symbol	Min	Typ	Max	Unit
Forward voltage	$I_F=1A$ V_F			0.55	V
Reverse current at rated DC blocking voltage	$T_A=25$ I_R			0.5	mA
	$T_A=100$			6	
Junction capacitance	V_R				



TAPE AND REEL SPECIFICATION-SMA





CHARACTERISTICS CURVE

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

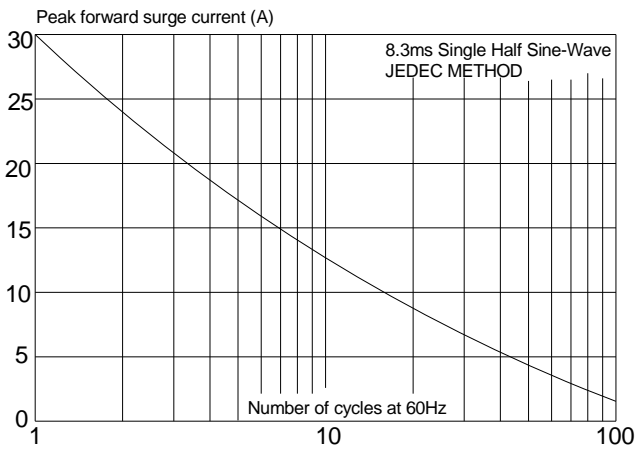


FIG.4: Forward current derating curve

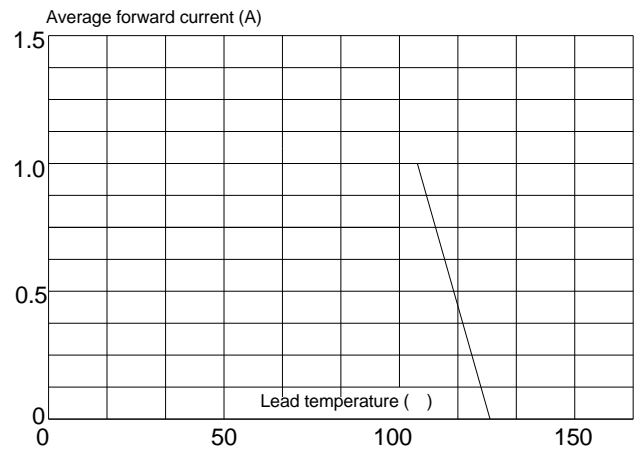


FIG.5: Maximum transient thermal impedance

