


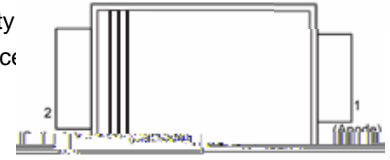


JSPJ560A

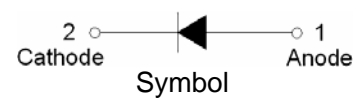
5A Schottky Barrier Rectifier

Rev.1.2

- ✧ For surface mounted applications in order to optimize board space
- ✧ Lead free in compliance with EU RoHS 2011/6: 
- ✧ Ultra low forward voltage drop
- ✧ Low power losses, high efficiency
- ✧ High current capability
- ✧ Low thermal resistance



DO-214AB (SMC)



MECHANICAL DATA

- ✧ Case: SMC 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	JSPJ560A	Unit
Maximum repetitive peak reverse voltage	V_{RRM}	60	V
Maximum RMS voltage	V_{RMS}	42	V
Maximum DC blocking voltage	V_{DC}	60	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	V_F			0.7	V
Reverse current at rated DC blocking voltage	I_R			0.1	mA
				15	
Junction capacitance	C_J		400		pF

CHARACTERISTICS CURVE

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

FIG.4: Forward current derating curve

