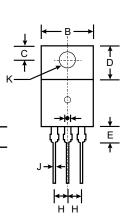
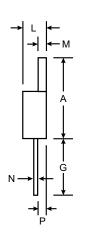


20A SCHOTTKY BARRIER RECTIFIER

Features

- Schottky Barrier Chip
- Guard Ring Die Construction for Transient Protection
- Low Power Loss, High Efficiency
- High Surge Capability
- High Current Capability and Low Forward Voltage Drop
- For Use in Low Voltage, High Frequency Inverters, Free Wheeling, and Polarity Protection Applications
- Plastic Material UL Flammability Classification 94V-0





TO-220AB				
Dim	Min	Max		
Α	14.22	15.88		
В	9.65	10.67		
С	2.54	3.43		
D	5.84	6.86		
E	_	6.25		
G	12.70	14.73		
Н	2.29	2.79		
J	0.51	1.14		
K	3.53∅	4.09∅		
L	3.56	4.83		
М	1.14	1.40		
N	0.30	0.64		
Р	2.03	2.92		
All Dimensions in mm				

Mechanical Data

Case: Molded Plastic

 Terminals: Plated Leads Solderable per MIL-STD-202, Method 208

Polarity: As Marked on BodyWeight: 2.24 grams (approx)

Mounting Position: AnyMarking: Type Number

Maximum Ratings and Electrical Characteristics @ 1

@ T_A = 25°C unless otherwise specified

Single phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

Characteristic	Symbol	S9005P2CT	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V _{RRM} V _{RWM} V _R	100	V
Minimum Avalanche Breakdown Voltage per element (Note 1) @ 0.9A	_	110	V
Average Rectified Output Current (Note 1 & 3)	Io	20	А
Non-Repetitive Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method) (Note 3)	I _{FSM}	225	А
Instantaneous Forward Voltage Drop @ i _F = 10A	V _{FM}	0.70	V
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	I _{RM}	2.0 80	mA
Typical Junction Capacitance per element (Note 2)	Cj	325	pF
Voltage Rate of Change at Rated DC Blocking Voltage	dv/dt	10000	V/μs
Non-repetitive Avalanche Energy (Constant Current During a $20\mu s$ pulse) @ $T_C = 125^{\circ}C$	w	10	mJ
Typical Thermal Resistance Junction to Case per element (Note 1)	$R_{ heta Jc}$	1.5	K/W
Operating and Storage Temperature Range	T _{j,} T _{STG}	-60 +150	°C

Notes: 1. Valid provided that leads are kept at ambient temperature at a distance of 9.5mm from the case.

- 2. Measured at 1.0 MHz and applied reverse voltage of 4.0V DC.
- 3. I_{FSM} and I_{O} values shown are for entire package. For any single diode the values are one half of listed value.

