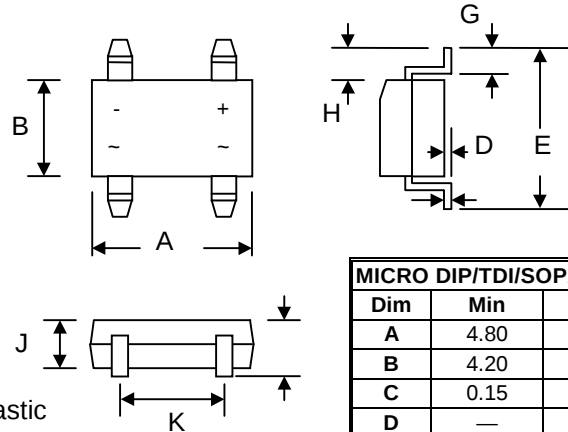


Features

- Schottky Barrier Chip
- Ideally Suited for Automatic Assembly
- Low Power Loss, High Efficiency
- High Surge Current Capability
- For Use in Low Voltage Application
- Plastic Case Material has UL Flammability Classification Rating 94V-O



Mechanical Data

- Case: MICOR DIP,TDI,SOPA-4, ABS, Molded Plastic
- Terminals: Plated Leads Solderable per MIL-STD-202, Method 208
- Polarity: As Marked on Case
- Mounting Position: Any
- Marking: Type Number
- **Lead Free: For RoHS / Lead Free Version**

MICRO DIP/TDI/SOPA-4/ABS		
Dim	Min	Max
A	4.80	5.30
B	4.20	4.60
C	0.15	0.25
D	—	0.20
E	6.00	6.80
G	0.30	0.70
H	0.90	1.10
J	—	1.50
K	3.80	4.20
L	1.22	1.72
All Dimensions in mm		

Maximum Ratings and Electrical Characteristics @T_A=25°C unless otherwise specified

Characteristic	Symbol	TS 120S	TS 130S	TS 140S	TS 150S	TS 160S	TS 180S	TS 1100S	TS 1150S	TS 1200S	TS 1250S	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V _{RRM} V _{RWM} V _R	20	30	40	50	60	80	100	150	200	250	V
RMS Reverse Voltage	V _{R(RMS)}	14	21	28	35	42	56	70	105	140	175	V
Average Rectified Output Current @T _L = 90°C	I _O	1.0										A
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	I _{FSM}	30										A
Forward Voltage @I _F = 1.0A	V _{FM}	0.50			0.70		0.85		0.90		0.92	V
Peak Reverse Current @T _A = 25°C At Rated DC Blocking Voltage @T _A = 100°C	I _{RM}	0.1 20										mA
Typical Thermal Resistance (Note 1)	R _{θJL} R _{θJA}	10 50										°C/W
Typical Junction Capacitance	C _j	110					30		110			pF
Operating Temperature Range	T _j	-65 to +150										°C
Storage Temperature Range	T _{STG}	-65 to +150										°C

Note: 1. Mounted on P.C. Board with 5.0mm² copper pad area.

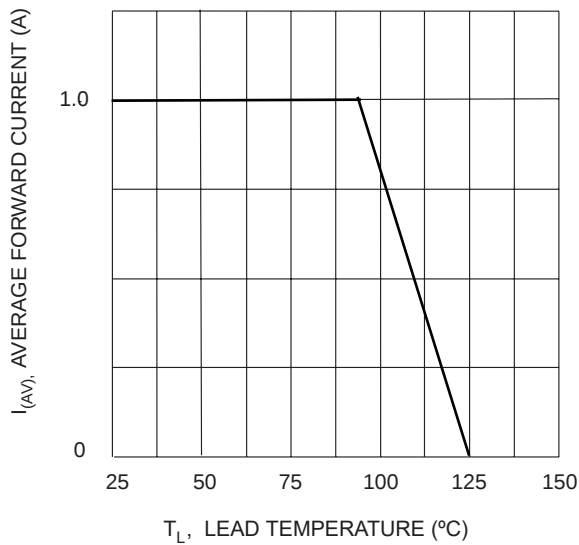


Fig. 1 Forward Current Derating Curve

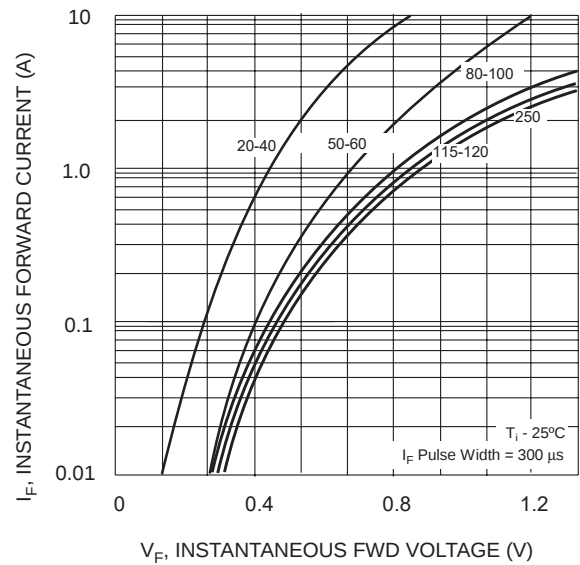


Fig. 2 Typ. Forward Characteristics

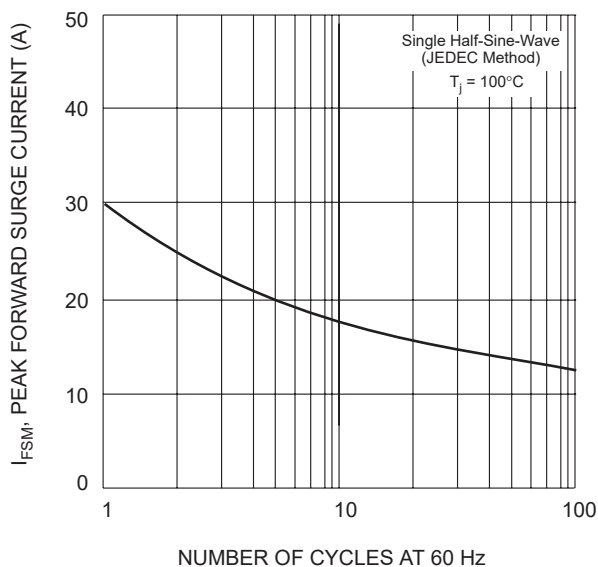


Fig. 3 Max Non-Repetitive Peak Fwd Surge Current

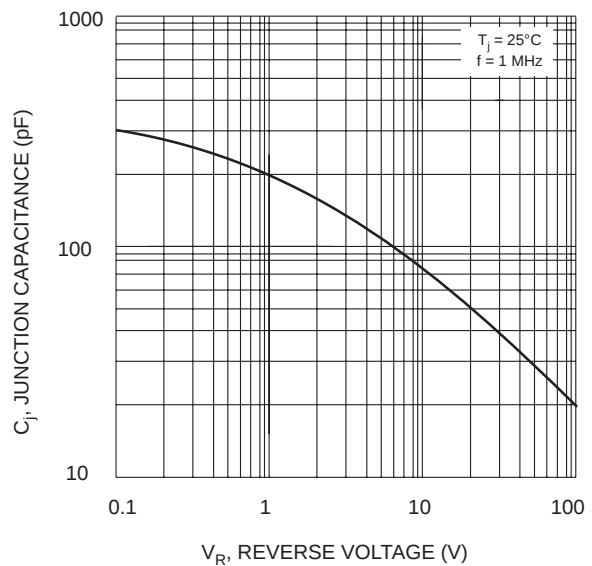


Fig. 4 Typical Junction Capacitance

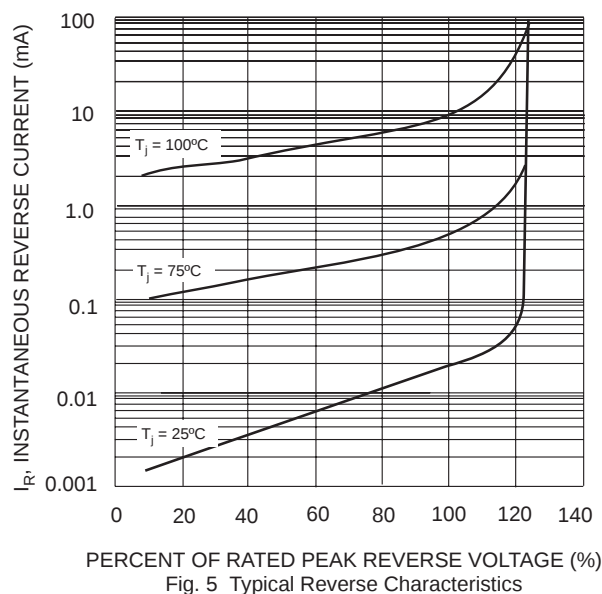


Fig. 5 Typical Reverse Characteristics