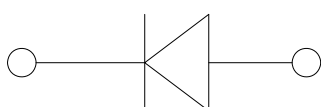


For use in high frequency rectification and freewheeling application in switching mode converters and inverters for consumer, computer and telecommunication.



: DO-204AL(DO-41)

Molding compound meets UL 94 V-0 flammability rating, RoHS-compliant

: Tin plated leads, solderable per J-STD-002 and JESD22-B102

Color band denotes the cathode end

(Ta=25 Unless otherwise specified)

| | | | |
|---|-------------|----|--------|
| Device marking code | | | SF19G |
| Maximum Repetitive Peak Reverse Voltage | VRRM | V | 800 |
| Maximum RMS Voltage | VRMS | V | 560 |
| Maximum DC blocking Voltage | VDC | V | 800 |
| Average Forward Current @60Hz sine wave, Resistance load, Ta =60 | $I_{F(AV)}$ | A | 1.0 |
| Forward Surge Current (Non-repetitive) @1ms, square wave, 1 cycle, Tj=25 | FSM | A | 30 |
| Current squared time @1ms t8.3 ms Tj=25 Rating of per diode | | | I^2t |
| Typical junction capacitance @ Measured at 1MHz and Applied Reverse Voltage of 4.0 V.D.C | Cj | pF | 11 |
| Storage Temperature | T | | |

| | | | |
|--|--|--|---------|
| | | | SF19G j |
|--|--|--|---------|

| | | | | |
|-------------------------------|-------|----|---------------------------------|----|
| Maximum reverse recovery time | t_r | ns | $I_F=0.5A, I_R=1.0A, I_r=0.25A$ | 35 |
|-------------------------------|-------|----|---------------------------------|----|



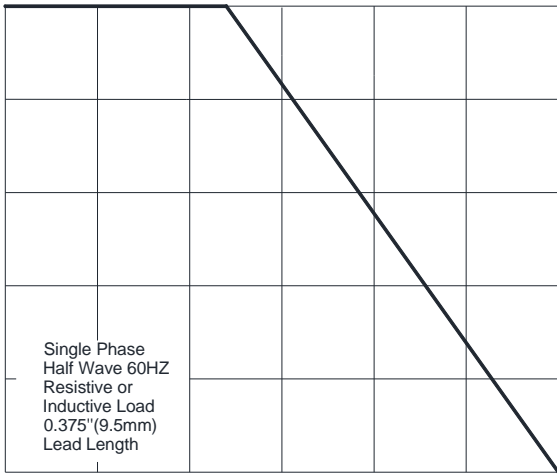
$T_a=25$ Unless otherwise specified

| | | | |
|----------------------------|-----------|----|----|
| | | | |
| Typical Thermal Resistance | R_{J-A} | /W | 60 |

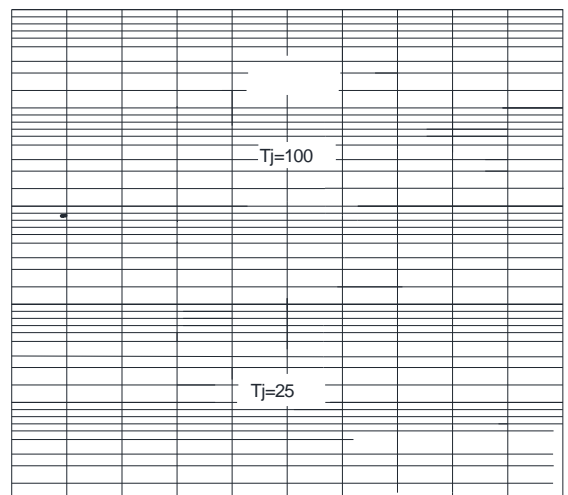
(Example)

| | | | | | | |
|-------|----|------------------|------|------|-------|------|
| | | | | | | |
| SF19G | D1 | Approximate 0.30 | 5000 | 5000 | 50000 | Tape |
| SF19G | C1 | Approximate 0.30 | 1000 | 1000 | 50000 | Bulk |

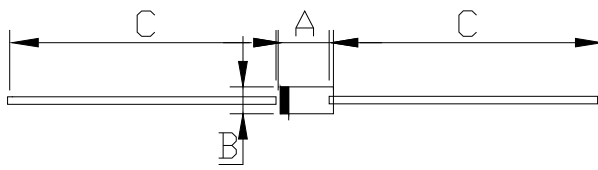
(Typical)



()



DO-204AL(DO-41)



| Dim | Min | Max |
|-----|------|------|
| A | 4.22 | 5.21 |
| B | 2.03 | 2.72 |
| C | 25.4 | / |
| D | 0.69 | 0.86 |



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The product listed herein is designed to be used with ordinary electronic equipment or devices, and not designed to be used with equipment or devices which require high level of reliability and the malfunction of which would directly endanger human life (such as medical instruments, transportation equipment, aerospace machinery, nuclear-reactor controllers, fuel controllers and other safety devices), Yangjie or anyone on its behalf, assumes no responsibility or liability for any damages resulting from such improper use of sale.

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