.034(0.9)

.028(0.7)

DIA.

SUPER FAST RECTIFIER

REVERSE VOLTAGE 50 to 600 Volts

FORWARD CURRENT 1.0 Ampere

1.0(25.4)

MIN.

DO-41

FEATURES

Super fast speed switching speed

Low forward voltage drop

Low leakage current

High forward surge capability

High reliability

High to

260℃

MECH

Case:

Ероху Polarit

Lead:

Mounti

MAXIMU

Ratings a Single ph

For capac

ters)

| temperature soldering guaranteed 2/10 seconds,0.375" (9.5mm)lead length at 5 lbs(2 | .3kg) tens | sion | | | | entral a | | |
|---|------------|-------|----------|------------------|-----------------|--------------------------|----------------------|--------|
| HANICAL DATA | | | | .205(5 .166(4 | | | | |
| e: Transfer molded plastic y: UL94V-0 rate flame retardant rity: Color band denotes cathode end : Plated axial lead, solderable per MIL-STD-202E mating position: Any UM RATINGS AND ELECTRICAL CHARA | ACTERI | STICS | . | | 0(25.4) MIN. | | 107(2.7) 080(2.0) | DIA. |
| at 25° ambient temperature unless otherwis hase, half wave, 60Hz, resistive or inductive leacitive load derate current by 20% | | | imens | sions | in inc | - [□] hes ar | nd (mi | llimet |
| ETER | SYMBOL | SF11 | SF12 | SF13 | SF14 | SF15 | SF16 | SF18 |

| For capacitive load derate current by 20% | | | | | | | | | | |
|--|------------------------|----------------------|--------------|------|------|------|------|------|-------|------------|
| PARAMETER | | SYMBOL | SF11 | SF12 | SF13 | SF14 | SF15 | SF16 | SF18 | UNIT |
| Maximum Repetitive Peak Reverse Voltage | | V _{RRM} | 50 | 100 | 150 | 200 | 300 | 400 | 600 | VOLTS |
| Maximum RMS Voltage | | V _{RMS} | 35 | 70 | 105 | 140 | 210 | 280 | 420 | VOLTS |
| Maximum DC Blocking Voltage | | V _{DC} | 50 | 100 | 150 | 200 | 300 | 400 | 600 | VOLTS |
| Maximum average forward rectified current 0.375"(9.5mm) lead length at T_A =55 $^{\circ}$ C | | I _(AV) | 1.0 | | | | | | Amp | |
| Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method) | | IFSM | 30 | | | | | | Amps | |
| Maximum instantaneous forward voltage at 1.0A | | V _F | 0.95 1.25 1. | | | | | 1.7 | VOLTS | |
| Maximum DC Reverse Current | T _A = 25°C | | 5.0 100 | | | | | | | uA |
| at Rated DC blocking voltage | T _A = 100°C | I _R | | | | | | | | |
| Maximum reverse recovery time (NOTE 1) | | T _{RR} | 35 | | | | | | | ns |
| Typical Junction Capacitance (Note 2) | | Сл | 15 10 | | | | pF | | | |
| Typical TSFmal Resistance (NOTE 3) | | R ө JA | 60 | | | | | | | |
| Operating junction and storage temperature range | | T _J ,Тsтg | -55 to +150 | | | | | | | $^{\circ}$ |

- 1- Reverse Recovery Test Conditions: If=0.5A,Ir=1.0A,Irr=0.25A.
- 2- Measured at 1 MHZ and applied reverse voltage of 4.0 VDC.
- 3-Thermal Resistance From Junction to Ambient at. 375" (9.5mm)lead length, P.C. board mounted.

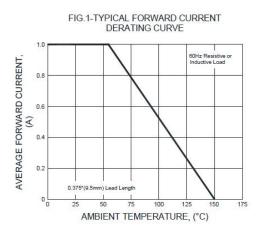
Kingtronics® International Company

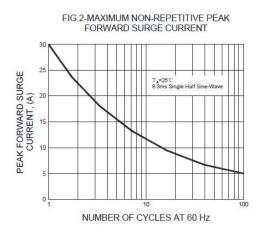
Website: www.kingtronics.com Email: info@kingtronics.com Tel: (852) 8106 7033 Fax: (852) 8106 7099

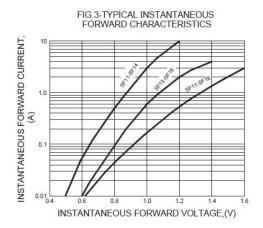
Kingtronics®

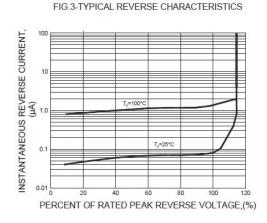
SF11 THRU SF18

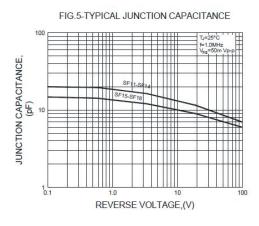
RATINGS AND CHARACTERISTIC CURVES

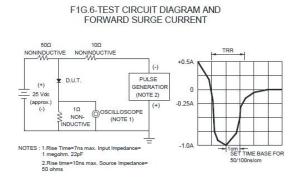












Note: Specifications are subject to change without notice.

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