

Voltage Range 20 to 60 V
Current 30.0 Ampere

Features

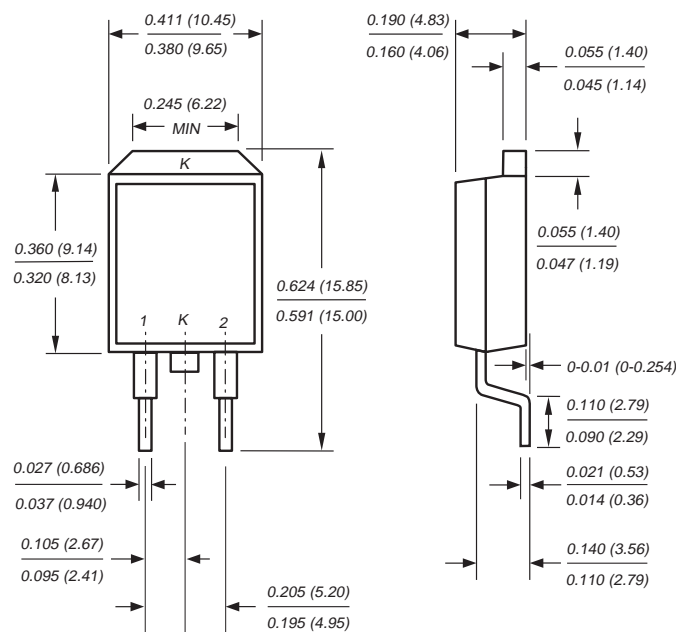
- ★ Low forward voltage drop
- ★ High current capability
- ★ High reliability
- ★ High surge current capability

Mechanical Data

- ★ Case: Molded plastic D2-PAK
- ★ Epoxy: UL 94V-0 rate flame retardant
- ★ Terminals: Solderable per MIL-STD-750 method 2026
- ★ Polarity: Color band denotes cathode end
- ★ Mounting position: Any
- ★ Weight: 1.7 grams

Dimensions in inches and (millimeters)

D2-PAK



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25°C ambient temperature unless otherwise specified.
 Single phase, half wave, 60Hz, resistive or inductive load.
 For capacitive load, derate current by 20%.

PARAMTER	SYBMOL	TSS30D 20C	TSS30D 40C	TSS30D 45C	TSS30D 50C	TSS30D 60C	UNIT
Maximum Recurrent Peak Reverse Voltage	VRRM	20	40	45	50	60	V
Maximum RMS Voltage	VRMS	14	28	32	35	42	V
Maximum DC Blocking Voltage	VDC	20	40	45	50	60	V
Maximum Average Forward Rectified Current Tc=105°C	IF(AV)	30.0					A
Peak Forward Surge Current, 8.3ms single Half sine-wave superimposed on rated load (JEDEC Method)	IFSM	150					A
Maximum Instantaneous Forward Voltage @ 15.0 A	VF	0.55			0.65		V
Maximum DC Reverse Current @Tj=25°C At Rated DC Blocking Voltage @Tj=100°C	IR	2.0 60					mA
Typical junction Capacitance (Note 1)	CJ	420					pF
Operating Junction and Storage Temperature Range	TJ, TSTG	-55 to +125 / -55 to +150					°C

NOTES : (1) Measured at 1.0 MHz and applied reverse voltage of 4.0 Volts DC.

RATING AND CHARACTERISTIC CURVES

FIG.1 - FORWARD CURRENT DERATING CURVE

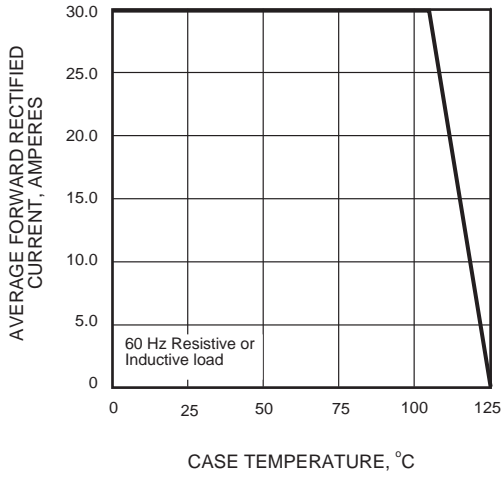


FIG.2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

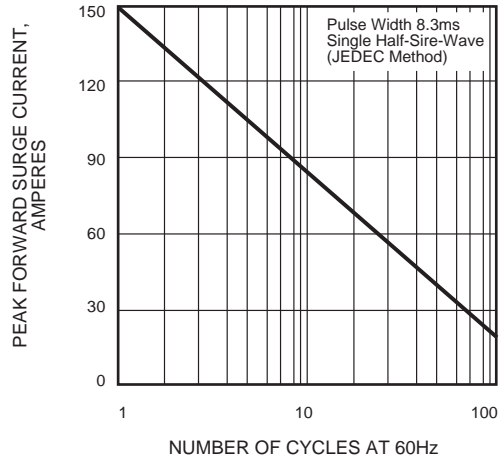


FIG.3 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

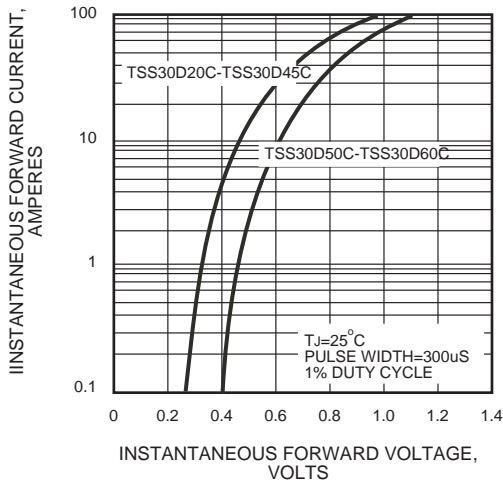


FIG.4 - TYPICAL REVERSE CHARACTERISTICS

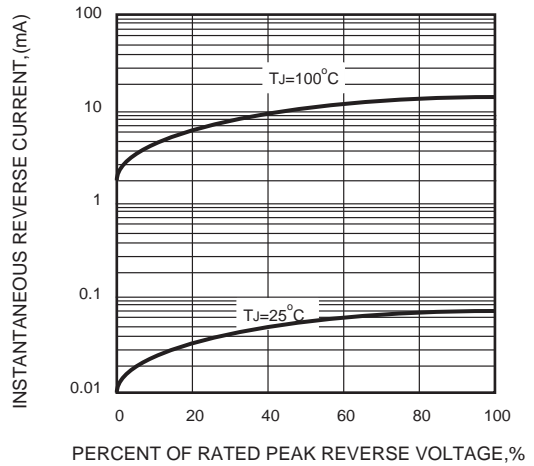


FIG.5 - TYPICAL JUNCTION CAPACITANCE

