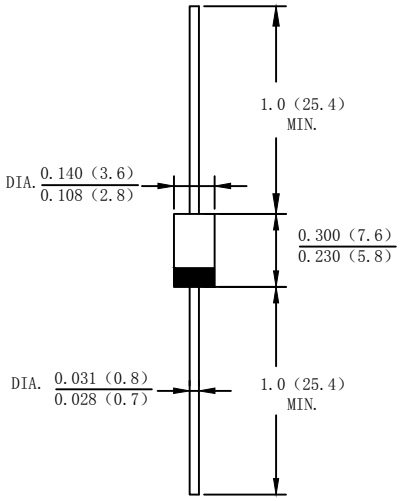
sapcon®

1N5391 THRU 1N5399

Features

- Low forward voltage drop
- High current capability
- High reliability
- High surge current capability
- Plastic material-UL flammability 94V-0

DO-15



Dimensions in inches and (millimeters)

Mechanical Data

- Case: Moeded plastic DO-15
- Terminals: Axial leads solderable to MIL-STD-202,Method 208
- Polarity: Color band dentes cathode end
- Mounting Position: Any

Maximum Ratings and Electrical Characteristics

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

Type Number	SYMBOL	1N 5391	1N 5392	1N 5393	1N 5394	1N 5395	1N 5396	1N 5397	1N 5398	1N 5399	Unit
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	50	100	200	300	400	500	600	800	1000	V
Maximum RMS Voltage	V_{RMS}	35	70	140	210	280	350	420	560	700	V
Maximum DC Blocking Voltage	V_{DC}	50	100	200	300	400	500	600	800	1000	V
Average Rectified Output Current (Note 1) @T_A=50℃	I_O	1.5									A
Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	I_{FSM}	50									A
Forward Voltage @IF=1.5A	V_{FM}	1.1									V
Peak Reverse Current @T_A=25℃	I_R	5.0									uA
At Rated DC Blocking Voltage @T_A=100℃		50									
Typical Junction Capacitance (Note 2)	C_J	20									pF
Typical Thermal Resistance Junction to Ambient	$R_{\theta JA}$	26									℃/W
Operating Temperature Range	T_J	-55 to +125									℃
Storage Temperature Range	T_{STG}	-55 to +150									℃

Note: 1. Leads maintained 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 D.C

FIG. 1 – FORWARD CURRENT DERATING CURVE

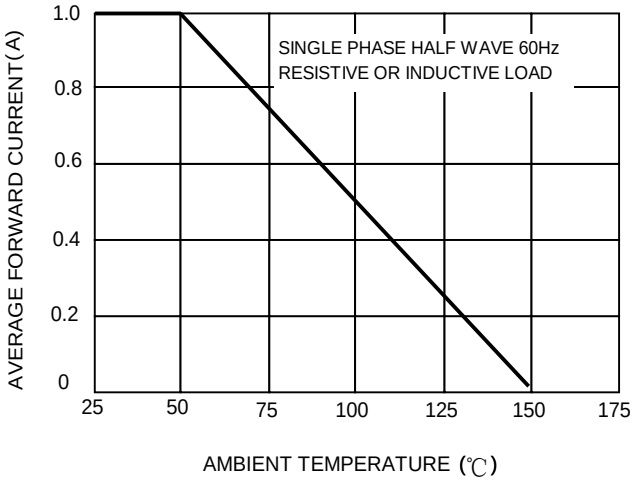


FIG.2-TYPICAL FORWARD CHARACTERISTICS

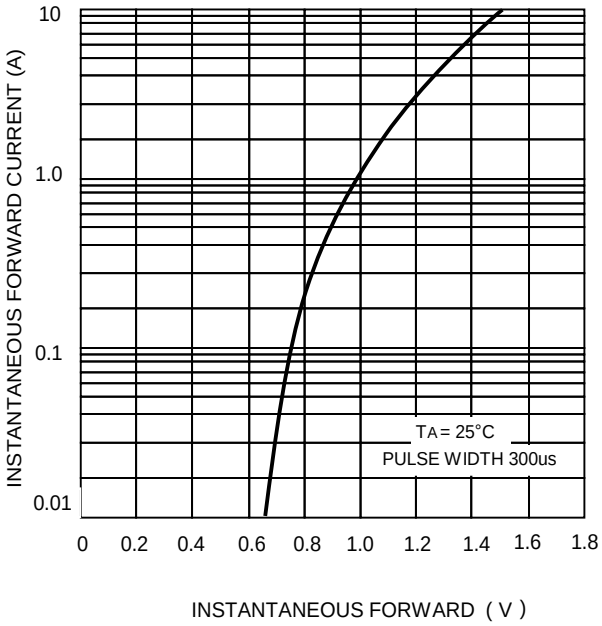


FIG. 3 – MAXIMUM NON-REPETITIVE SURGE CURRENT

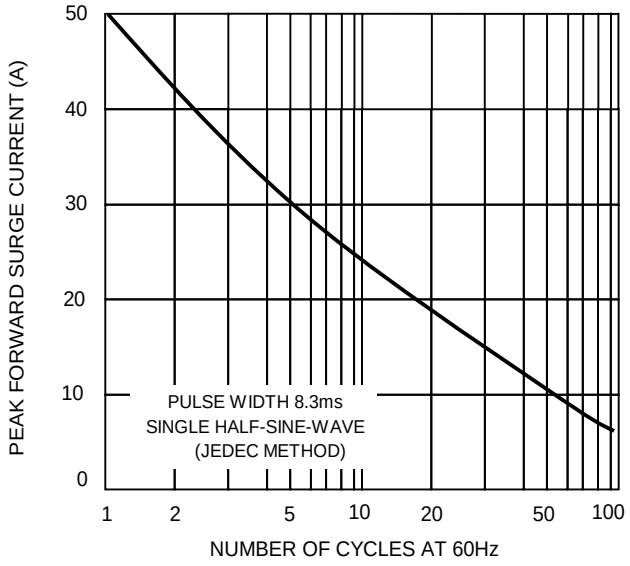


FIG.4 – TYPICAL JUNCTION CAPACITANCE