

VOLTAGE RANGE CURRENT 50 to 1000 Volts 2.5 Ampere

Features

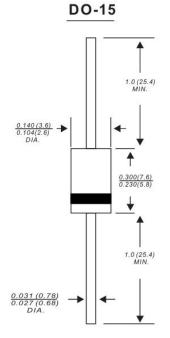
- Low forward voltage drop
- Low reverse leakage
- · High forward surge current capability
- High temperature soldering guaranteed:
 260°C/10 secods,0.375"(9.5mm)lead length at 5 lbs(2.3kg) tension

Mechanical Data

- Case: Transfer molded plastic
- Epoxy: UL94V-0 rate flame retardant
- · Polarity: Color band denotes cathode end
- Lead: Plated axial lead, solderable per MIL-STD-202E method 208C
- Mounting position: Any
- Weight: 0.012ounce, 0.39 grams

Maximum Ratings and Electrical Characteristics

- Ratings at 25 [°]C ambient temperature unless otherwise specified
- Single Phase, half wave, 60Hz, resistive or inductive load
- For capacitive load derate current by 20%



Dimensions in inches and (millimeters)

TYPE NUMBER		SYMBO LS	EM 2A	EM 2B	EM 2C	EM 2D	EM 2G	EM 2K	EM 2M	UNITS
Maximum Repetitive Peak Reverse Voltage		V _{RRM}	50	100	200	400	600	800	1000	Volts
Maximum RMS Voltage		V _{RMS}	35	70	140	280	420	560	700	Volts
Maximum DC Blocking Voltage		V _{DC}	50	100	200	400	600	800	1000	Volts
Maximum Average Forward Rectified Current(FIG.1)0.375"(9.5mm) lead length at T _A =100°C		I _(AV)	2.5				Amps			
Peak Forward Surge Current 8.3mS single half sine- wave superimposed on rated load (JEDEC method)		I _{FSM}	70				Amps			
Maximum Instantaneous Forward Voltage at 2.5A		VF	1.1				Volts			
Maximum DC Reverse Current at Rated DC Blocking Voltage	T _A = 25°C	lavos				5.0				μA
	T _A = 100℃	I _{R(AV)}	50							μΛ
Typical Junction Capacitance (NOTE 1)		Сл	20				pF			
Typical Thermal Resistance (NOTE 2)		R _{θJA}	40				°C/W			
Operating and Storage Temperature Range		T _J ,T _{STG}	-55 to +150					$^{\circ}\mathbb{C}$		

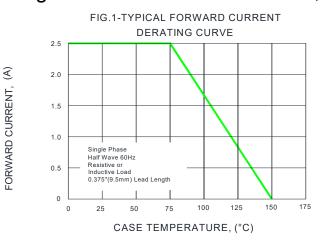
Notes:

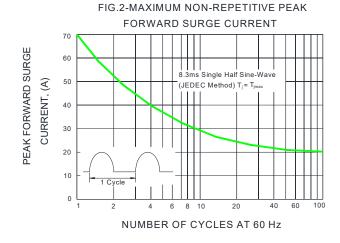
- 1. Measured at 1.0MHz and applied reverse voltage of 4.0 Volts.
- 2. Thermal Resistance from Junction to Ambient with 0.375"(9.5mm) lead length, PCB mounted.



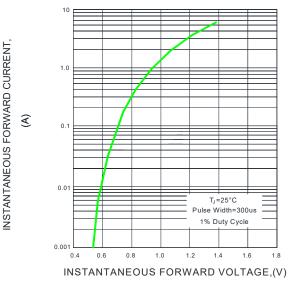
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Ratings and Characteristic Curves (TA=25°C unless otherwise noted)









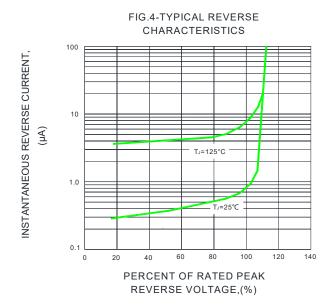
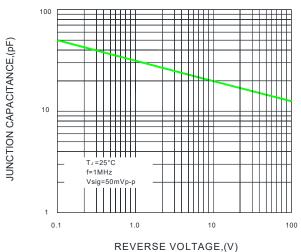


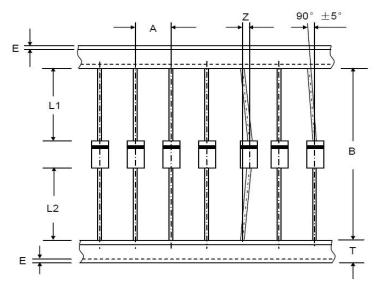
FIG.5-TYPICAL JUNCTION CAPACITANCE





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Axial Lead Taping Specifications for Rectifiers



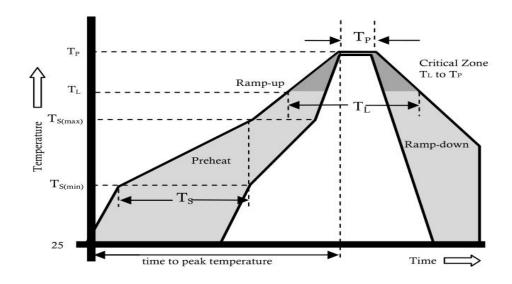
Component Outline	Component Pitch A	Inner Tap	e Pitch B	Cumulative	
Component Outline	±0.5mm	+0.5mm -0.4mm		Tolerance	
DO-204AC(DO-15)	5.0mm	52.4mm	26.0mm	2.0mm/20pitch	

Item	Symbol	Specifications(mm)	Specifications(inch)
Component alignment	Z	1.2 max	0.048 max
Tape width	Т	6.0±0.4	0.236±0.016
Exposed adhesive	Е	0.8 max	0.032 max
Body eccentricity	IL1-L2I	1.0 max	0.040 max



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Reflow Profile



Reflow Condition		Pb-Free Assembly		
	Temperature Min.	+150°C		
Pre Heat	Temperature Max.	+200°C		
	Time(Min to Max)	60-180 secs.		
Average rar	np up rate(Liquidus Temp(T _L) to peak)	3°C/sec. Max.		
Ts	g(max) to T∟ - Ramp-up Rate	3°C/sec. Max.		
D - fl	Temperature (T _∟)(Liquidus)	+217°C		
Reflow	Temperature (T _L)	60-150 secs.		
Peak Temp (T _P)		+(260+0/-5)°C		
Time within 5°C of actual Peak Temp (T _P)		25 secs.		
Ramp-down Rate		6°C/sec. Max.		
Time 25°C to peak Temp (T _P)		8 min. Max.		
Do not exceed		+260°C		



AXIAL SILASTIC GUARD JUNCTION STANDARD RECTIFIER

EM2A THRU EM2M

VOLTAGE RANGE

50 to 1000 Volts

CURRENT 2.5 Ampere

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