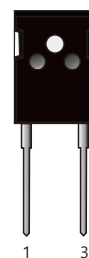


FEATURES

- Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- Fast switching for high efficiency
- Low forward voltage drop
- Ultrafast Recovery Time
- High surge current capability
- For use in free wheeling, snubber, clamp, inversion welder, PFC,Plating Power Supply
- High temperature soldering guaranteed:260°C/10 seconds, 0.25"(6.35mm)from case
- Component in accordance to RoHS 2015/863/EU

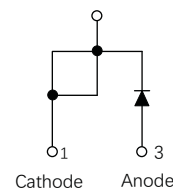
TO-247AC



MECHANICAL DATA

- Case: JEDEC TO-247AC molded plastic body
- Terminals: Lead solderable per MIL-STD-750,method 2026
- Polarity: As marked
- Mounting Position: Any

Base common cathode



ABSOLUTE MAXIMUM RATINGS (T_c=25°C unless otherwise specified)

Symbol	Parameter/Test Conditions		Values	Unit
V _R	Maximum DC blocking voltage		1200	V
V _{RRM}	Maximum repetitive peak reverse voltage		1200	V
I _{F(AV)}	Average forward current	T _c =100°C	15	A
I _{F(RMS)}	RMS forward current	T _c =100°C	21	A
I _{FSM}	NON Repetitive Surge Forward Current	T _j =45°C,t=10ms,50HZ,Sine	150	A
P _D	Power Dissipation		89	W
T _J	Junction temperature		-55 to+150	°C
T _{STG}	Storage temperature range		-55 to+150	°C
Torque	Module to Sink	Recommended(M3)	1.1	Nm
R _{θJC}	Junction to Case Thermal Resistance		1.4	°C/W

ELECTRICAL CHARACTERISTICS (T_c=25°C unless otherwise specified)

Symbol	Parameter/Test Conditions		Min.	Typ.	Max.	Unit
I _{RM}	Maximum Reverse Leakage Current	V _R =1200V			10	μA
I _{RM}	Maximum Reverse Leakage Current	V _R =1200V, T _J =125°C			1	mA
V _F	Forward Voltage	I _F =15A		2.0	2.4	V
V _F	Forward Voltage	I _F =15A, T _J =125°C		1.6		V
t _{rr}	Reverse Recovery Time(I _F =1A, dI _F /dt=-200A/μs, V _R =30V)			25	30	ns
t _{rr}	Reverse Recovery Time(I _F =0.5A, I _R =1A, I _{RR} =0.25A)			50	60	ns
t _{rr}	Reverse Recovery Time	I _F =8A, V _R =600V dI _F /dt=-200A/μs		72		ns
I _{RRM}	Maximum Reverse Recovery Current			5		A
t _{rr}	Reverse Recovery Time	I _F =8A, V _R =600V dI _F /dt=-200A/μs, T _J =125°C		240		ns
I _{RRM}	Maximum Reverse Recovery Current			7.5		A

RATINGS AND CHARACTERISTIC CURVES

FIG.1-Forward Voltage Drop vs Forward Current

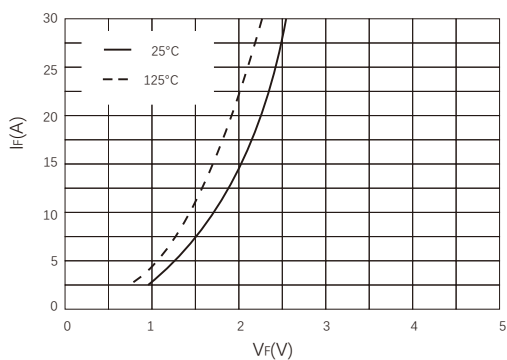


FIG.2-Reverse Recovery Time vs dI_F/dt

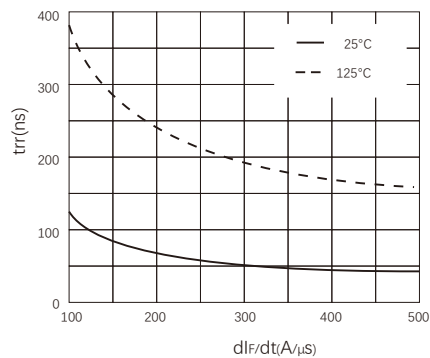


FIG.3-Forward Current vs Case temperature

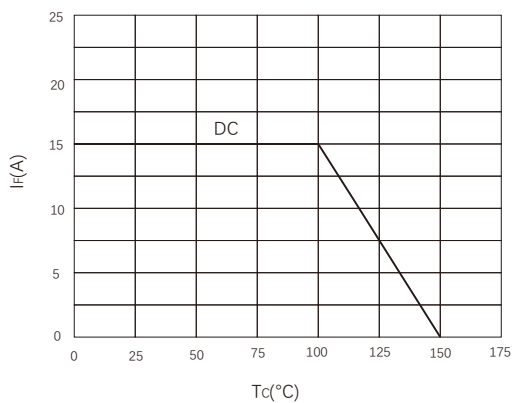
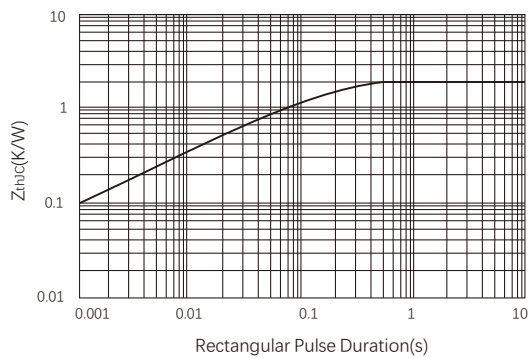
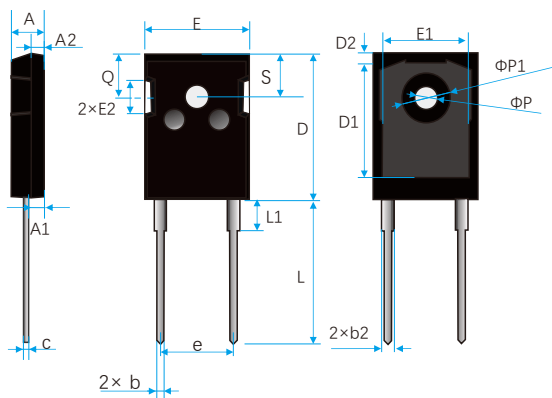


FIG.4-Forward Current vs Case temperature



TO-247AC



Symbol	millimeter		
	Min.	Typ.	MAX
A	4.70		5.30
A1	2.21		2.59
A2	1.50		2.49
D	20.30		21.30
E	15.48		16.24
E2	4.30		5.50
e		10.92	
L	19.80		20.30
L1	4.00		4.60
ΦP		3.50	
Q	5.38		6.19
S		6.14	
b	0.99		1.40
b2	1.65		2.39
b4	2.59		3.43
c	0.38		0.89
D1	13.07		
D2	0.51		1.35
E1	13.06		
ΦP1		7.20	

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