

# **General Purpose Silicon Rectifiers**

Reverse Voltage: 100 to 1000 Volts

Forward Current: 16.0 Ampere

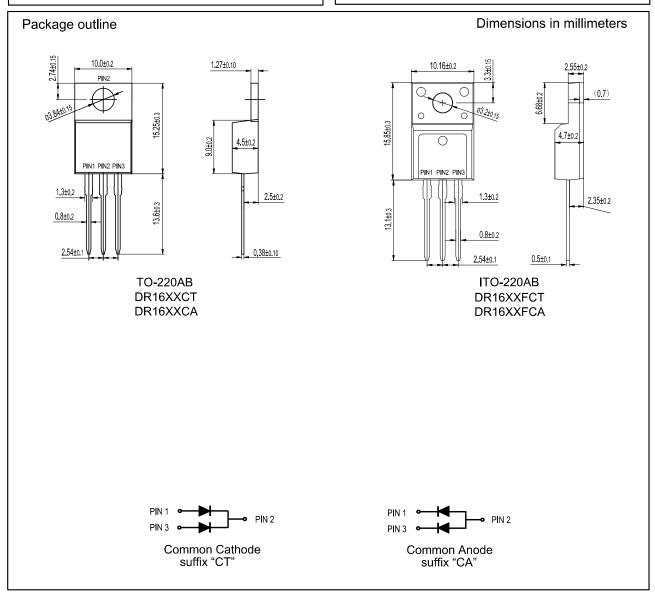
RoHS Device Halogen Free

### **Features**

- Glass passivated chip junctions
- Low reverse current operation
- High Junction Temperature
- High Forward Surge Capability
- Lead free in compliance with EU RoHS 2011/65/EU directive

### Mechanical data

- Leads: Solderable per mil-std-202, Method 208
- Polarity: as marked
- Mounting torque: 5 in-lbs maximum
- Terminals: Puretin plated
- Weight: TO-220AB 1.85 grams ITO-220AB 1.70 grams



Company reserves the right to improve product design, functions and reliability without notice.

# **DR16CT/CA Series**



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 by 20%

Parameter	Symbol	DR1601 CT/CA FCT/FCA	DR1602 CT/CA FCT/FCA	DR1604 CT/CA FCT/FCA	DR1606 CT/CA FCT/FCA	DR1608 CT/CA FCT/FCA	DR1610 CT/CA FCT/FCA	Unit
Maximum repetitive peak reverse voltage	Vrrm	100	200	400	600	800	1000	V
Maximum RMS voltage	V <sub>RMS</sub>	70	140	280	420	560	700	V
Maximum DC blocking voltage	V <sub>DC</sub>	100	200	400	600	800	1000	V
Maximum average forward current	lav	16					А	
Peak forward surge current, 8.3ms single half sine-wave superimposed on rated load	IFSM	IFSM 200				А		
Typical thermal resistance TO-220AB per diode (Note 1) ITO-220AB	Rejc	2.5 4.0				°C/W		
Operating junction temperature range	Tj	T <sub>j</sub> -55 ~ +150				°C		
Storage temperature range	Tstg	-55 ~ +150			°C			
Characteristics	Symbol	DR1601 CT/CA FCT/FCA	DR1602 CT/CA FCT/FCA	DR1604 CT/CA FCT/FCA	DR1606 CT/CA FCT/FCA	DR1608 CT/CA FCT/FCA	DR1610 CT/CA FCT/FCA	Unit
Maximum instantaneous forward voltage at specified current	VF	1.1			V			
Maximum DC reverse current T <sub>a</sub> = 25°C at rated DC blocking voltage T <sub>a</sub> =125°C	lr	5.0 250			μΑ			

Notes: 1. Thermal resistance from junction to case.



## Rating and Characteristic Curves

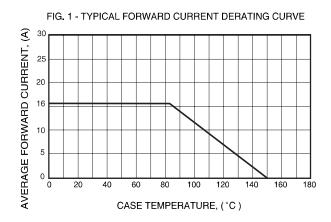


FIG. 3 - MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT 250

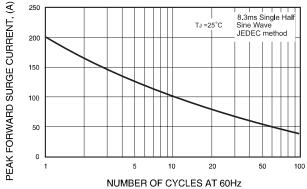


FIG. 4 - TYPICAL REVERSE CHARACTERISTICS

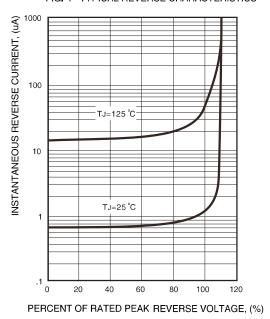
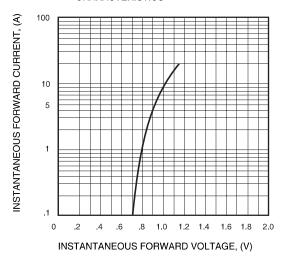


FIG. 2 - TYPICAL INSTANTANEOUS FORWARD **CHARACTERISTICS** 





## **Standard Packaging**

Case Type	TUBE PACK				
	TUBE ( pcs )	BOX ( pcs )			
TO-220AB	50	1,000			



## **Standard Packaging**

	TUBE PACK				
	TUBE ( pcs )	BOX ( pcs )			
ITO-220AB	50	1,000			

